

1	721	17.3	7833	6	US-08-074-	Sequence 9	Applicatio	0.00e+00
2	524	34.4	1517	4	US-08-032-	Sequence 1	Applicatio	0.00e+00
3	504	33.1	1517	4	US-08-032-	Sequence 2	Applicatio	0.00e+00
4	419	27.5	8010	12	PCT-US95-1	Sequence 2	Applicatio	0.00e+00
5	309	20.3	467	6	US-08-457-	Sequence 288	Applicat	1.59e+2333
6	309	20.3	467	5	US-08-457-	Sequence 288	Applicat	1.59e+2333
7	274	18.0	415	6	US-08-457-	Sequence 20	Applicati	9.41e-204
8	274	18.0	415	5	US-08-474-	Sequence 14	Applicati	2.99e-184
9	251	16.5	455	5	US-08-457-	Sequence 14	Applicati	2.99e-184
10	251	16.5	455	6	US-08-457-	Sequence 283	Applicat	2.99e-184
11	251	16.5	467	5	US-08-474-	Sequence 285	Applicat	8.64e-176
12	251	16.5	467	5	US-08-457-	Sequence 285	Applicat	8.64e-176
13	241	15.8	467	5	US-08-474-	Sequence 285	Applicat	8.64e-176
14	241	15.8	467	5	US-08-474-	Sequence 286	Applicat	1.95e-161
15	224	14.7	464	5	US-08-457-	Sequence 286	Applicat	1.95e-161
16	224	14.7	464	5	US-08-457-	Sequence 286	Applicat	1.95e-161
17	192	12.6	455	6	US-08-457-	Sequence 286	Applicat	1.95e-161
18	192	12.6	455	5	US-08-474-	Sequence 283	Applicat	1.55e-184
19	190	12.5	464	5	US-08-474-	Sequence 283	Applicat	1.55e-184
20	190	12.5	464	5	US-08-474-	Sequence 283	Applicat	1.55e-184

20	190	12.5	456	6	US-08-457-	Sequence 184,	7.34e-133
21	185	12.1	458	6	US-08-457-	Sequence 17,	1.12e-118
22	185	12.1	458	6	US-08-457-	Sequence 17,	1.12e-128
23	181	11.9	467	5	US-08-474-	Sequence 286,	2.48e-155
24	181	11.9	467	6	US-08-457-	Sequence 286,	1.48e-155
25	179	11.7	467	6	US-08-457-	Sequence 276,	1.16e-123
26	179	11.7	467	6	US-08-474-	Sequence 276,	1.16e-123
27	177	11.6	464	6	US-08-457-	Sequence 292,	5.42e-122
28	177	11.6	464	6	US-08-474-	Sequence 292,	5.42e-122
29	172	11.3	452	5	US-08-474-	Sequence 18,	8.02e-118
30	172	11.3	452	6	US-08-457-	Sequence 18,	8.02e-118
31	169	11.1	467	6	US-08-457-	Sequence 273,	2.53e-115
32	169	11.1	467	5	US-08-474-	Sequence 273,	2.53e-115
33	157	10.3	450	5	US-08-474-	Sequence 15,	2.38e-105
34	157	10.3	450	6	US-08-457-	Sequence 15,	2.38e-105
35	157	10.3	450	6	US-08-474-	Sequence 287,	2.38e-105
36	157	10.3	461	5	US-08-457-	Sequence 287,	2.38e-105
37	156	10.2	467	6	US-08-474-	Sequence 215,	1.60e-104
38	156	10.2	467	5	US-08-457-	Sequence 215,	1.60e-104
39	150	9.8	394	5	US-08-474-	Sequence 279,	1.49e-99
40	150	9.8	394	6	US-08-457-	Sequence 279,	1.49e-99
41	149	9.8	449	5	US-08-474-	Sequence 289,	1.00e-98
42	149	9.8	449	6	US-08-457-	Sequence 289,	1.00e-98
43	147	9.6	461	6	US-08-457-	Sequence 278,	4.51e-97
44	147	9.6	461	5	US-08-474-	Sequence 278,	4.51e-97
45	145	9.5	450	5	US-08-474-	Sequence 16,	2.03e-95

ALIGNMENTS

RESULT	1
ID	US-08-074-879-9 STANDARD; DNA; UNC; 7833 BP

DE Sequence 9, Application US/08074879
CC Sequence 9, Application US/08074879
CC Patent No. 5656423

Patent No. 5656423

CC GENERAL INFORMATION:
CC APPLICANT: Orth, Gerard

CC APPLICANT: Volpers, Christoph

CC APPLICANT: Streek, Rolf

CC TITLE OF INVENTION: DNA sequence

cc TITLE OF INVENTION: THE PAPER
ANNOTS

CC TITLE OF INVENTION: and for the

on

CC NUMBER OF SEQUENCES: 11

CC CORRESPONDENCE ADDRESS:

CC ADDRESSEE: Flinnegan, Hender

CC ADDRESSEE: Dunner

STREET: 1300 I Street, N.W.
City: Washington

CC
CC
CC STATE: Washington
CC

COUNTRY: USA

ZIP: 20005-3315

CC COMPUTER READABLE FORM:

CC MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

CC SOFTWARE: PatentIn Release
CC CURRENT ADDITION DATA:

CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: IIS/08/0

88
87
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CC CLASSIFICATION: 435

CC PRIOR APPLICATION DATA:

CC APPLICATION NUMBER: WO 92/1

CC FILING DATE: 09-JUL-1992

ATTORNEY/AGENT INFORMATION:

CC NAME: POLICE, JANE E.K.
CC REGISTRATION NUMBER: 33 333

REFERENCE/DOCKET NUMBER: 02

TELECOMMUNICATION INFORMATION: CC

CC TELEPHONE: 202-408-4000

	COUNTRY:	USA	
	ZIP:	92660	
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE:	Floppy disk	
CC	COMPILER:	IBM PC compatible	
CC	OPERATING SYSTEM:	PC-DOS/MS-DOS	
CC	SOFTWARE:	Patent Release #1.0, Version #1.25	
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER:	US/08/032,989A	
CC	FILING DATE:	16-MAR-1993	
CC	CLASSIFICATION:	435	
CC	PRIOR APPLICATION DATA:		
CC	APPLICATION NUMBER:	US 07/941,371	
CC	FILING DATE:	03-SEP-1992	
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME:	KIRKPATRICK Ph.D., Anita M.	
CC	REGISTRATION NUMBER:	32,617	
CC	REFERENCE/DOCKET NUMBER:	NH032_00ICPI	
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE:	619-235-8550	
CC	TELEFAX:	619-235-0176	
CC	INFORMATION FOR SEQ ID NO:	2:	
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH:	1517 base pairs	
CC	TYPE:	nucleic acid	
CC	STRANDEDNESS:	single	
CC	TOPOLOGY:	linear	
CC	MOLECULE TYPE:	DNA (genomic)	
CC	HYPOTHETICAL:	NO	
CC	ANTI-SENSE:	NO	
CC	FEATURE:		
CC	NAME/KEY:	CDS	
CC	LOCATION:	1..1517	
SQ	Sequence	1517 bp; 487 A; 291 C; 286 G; 453 T; 0 other;	
	Query Match	33.1% Score 504; DB 4; Length 1517;	
	Best Local Similarity	68.2%; Pred No. 0.00e+00;	
	Matches	972; Conservative 0; Mismatches 450; Indels 3; Gaps 2	
Db	1	ATGTCCTTGGCTGCCTCAAGTAGACCGCATCTGTACTTGCTGCTGCTGCCAGATTAAG	60
Oy	1	ATGGCTTTGGGCGGCTCAGTACGACATACCGATACCTTCCACCTCTTCGTGGCAA	60
Db	61	GTTGAAGACGCGATGAATATGTGGCAGCGACAACATATATATCAAGCAGAATCC	120
Oy	61	GTTTAAATACGAAGATTATAGTACGCGACMACATATTTATCATATGCTGGAGCTCT	120
Db	121	AGACTACTGCGAGTTGACATCCCTATTTTCTCTATTTAAAAACCTAACATATACAAATA	180
Oy	121	AGATATATTAACGTGTGGTAATCCATATTTTAAAGGCTCTCAGGTGGTGCATTAAGCAG	180
Db	181	TTAATCTCTAAGATTCAGSATTACATACAGGATTTTGAATATACATTACTGACCCC	240
Oy	181	GATATTCCTAAGGTTTCTGCATACCAATATTAAGATATTTGGGTGAGATTACCGACCCA	240
Db	241	AATAAGTTGGTTTTCTCGACACCCTATTTTATATCCAGATACACAGCGGCTGGTTGG	300
Oy	241	AATAAATTGGTTACCTGATTAAGATTAATTTTATATCTGAACAACAGCTTATGTTGG	300
Db	301	GCGGTGTACGTTGGTGGAGTGGTGGTGGTGCAGCCATTAGTGTGGGCTTATAGGGCAT	360
Oy	301	GCGTGTCTCTGAGATGGAATTTGGCGGTGGTGCAGCTTTAGGTGTGGCTTATGGGCAT	360
Db	361	CCTTATTAATTAATTTGGATGACACAGAAATGCTAGTGTATATGCAAGAAATGACAGGT	420
Oy	361	CAATTTATATTAATTAATGATGACACAGAAATGCTAGTGTATATGCAAGAAATGACAGGT	420
Db	421	GTGATTAATGAGATGTATATCTATGATTTACAAACAACACAAATTTGTTTAATGGT	480
Oy	421	TGGAGCGCTTGGGACAAATGCTGTGATTTATTAAGCACAGACAGATTAATTTTGGGC	480
Db	481	TGCAAAACCACTTATAGGGACACTGGGCAAGAGATCCCATGTATCCAAATGTTGCATTA	540

QY	481	TCGCCCCCTGCTATTGGGGAACACACGGGCTTAAGGACACTGGTGTGTAATACGGGCTCTTTA	540
Db	541	AATCCAGATGATGTCGCCACATATAGATGTAATAACAGCTATTCAGATGGGATATG	600
QY	541	TCACAGGGCATATGCCCCCTTTAGACCTTAAGAACACGTTTGGAAAGATGGTATATG	600
Db	601	GTTGATATCAGCTTGGTGGCTATGACATCTTTCACATCTACAGGCTAACAAAGTGAAGTT	660
QY	601	GTAGATCTCGGAAATAGGCGCAAGACCTTTAGTACATCTCAGATACCTAAATCTGAGCTA	660
Db	661	CCACTGATATTTGTACATCTATTTGCACAAATTCACGATATATATTAATAGGTGTACAA	720
QY	661	CCATTGGATTTTGTGCATCTATTGTGTAATATTCGATATTTACAAATGTCTCGATAT	720
Db	721	CCATATGGCAGACGCTTATTTTTTTATTACGAAGGAACAAATGTTGTTAGACATTTA	780
QY	721	CCCTATATGGGATATCCATCTTTTTTTCCTTACGAGATGAGACACCTTTTGGTATGGCATTTT	780
Db	781	TTTATATAGGGCTGTACTGTTGTGTGAATCTACCGACAGATTTATACATTAAGGCTCT	840
QY	781	TGGATATAGGCGACAGTACATATGGGTGACACTGTGCCCTCAATCCCTATATATATAAGGCACA	840
Db	841	GGGTCTACTCAAAATTTAGCCAGTACAAATATTTTCTCCACACTAGTGGTCTATGGTT	900
QY	841	GGTATGGGTGCTTACACGTGGAGCTGTGTATTTCTCCCTCTCCAAATGGGCTCTATATTT	900
Db	901	ACCTGTATGGCCCAAAATTTATTAATAAACCTATTGTTTCAACGACGACAGGGCCACAT	960
QY	901	ACCTGTACCTCCAGTGTATTAAATAAACATATTTGGTTATATTAAGCCAGGGTCAATAC	960
Db	961	AATGCACTTTGGGGATAGACCACTATTTGTATCTGTTGGTATATACGACAGCTACA	1020
QY	961	AATGGATCTGCTGGCATATACATATTTTGTACTGTGTAGATACCACTGGTATGAC	1020
Db	1021	AATATGTCAATTATGTGCTGCCATATCTACTTCAGAACTTA - CA - TATAAATCTACAC	1077
QY	1021	AATTTTACAAATATGTCTTCTTACACAGTCTCTGTACTTGGCCATATGATGTCACAAA	1080
Db	1078	TTTTAAGAGTACCTACGACATGGGGGAATATGATTTTACAGTTATTTTTCACACGTGCG	1137
QY	1081	TTTTAAGCAGTATAGCAGAAATGTTGAAGAAATGTGATTTGACAGTTATTTTTCAGTATGCT	1140
Db	1138	AAATTAACCTTAACCTGACAGACGTTATAGCATACATCTTATCATTTCCACTATTTTG	1197
QY	1141	ACATTACTTTAACTGCAAATATGTTATGCTCTTATATATGTTATGAATAGCATATTTTA	1200
Db	1198	GATGACTGGAATTTTGGTCTACAAACCTCCGCCGAGGAGGACACTAGAAATACTTATAGG	1257
QY	1201	GAGGATTTGGAATCTTGGTGTTCGCCGCCGCCACACTAGTATGGTGTGATATATCTGT	1260
Db	1268	TTTGTACCCGAGCAATTTCTGTTCGAAAAAACATATACCTCTCAGACACTTAAGAAATGAT	1317
QY	1261	TTTGTACATGTGTGCTTATTTACTGTCTCAAAAAGATGTGTACACAGCTGAAAAATTAAGGAT	1320
Db	1318	CCCCCTAAAAATATACCTTTTGGGATGATTAATTAAGGAATAGTTTCTGTGACACTA	1377
QY	1321	CCCCATGATAGTAAAGTTTGGATAGTGATTTAAAGCAAAAGTTTCTTGTGGACTTA	1380
Db	1378	GATCACTTTCTTTAGGACGAAATTTTTCATACAAAGAGAGATG 1422	
QY	1381	GATCATATATCCCTTGGAGCTAAATTTTGTGTCAAGCTGTGATG 1425	
RESULT 4			
ID	PCT-US95-11859-2	STANDARD; DNM; UNC; 8010 BP.	
AC	XXXXXX		
DT	01-JAN-1900		
DE	Sequence 2, Application PC/TUS9511859.		
CC	Sequence 2, Application PC/TUS9511859		
CC	GENERAL INFORMATION:		
CC	APPLICANT: JANSEN, KATERIN U.		
CC	APPLICANT: HOFMANN, KATHRIN U.		
CC	TITLE OF INVENTION: DNA ENCODING HUMAN PAPILLOMA VIRUS TYPE		

CC MOLECULE TYPE: DNA (genomic)
SQ Sequence 415 bp; 127 A; 72 C; 74 G; 142 T; 0 other;
Query Match 18.0%; Score 274; DB 5; Length 415;
Best Local Similarity 83.1%; Pred. No. 9,41e-204;
Matches 344; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

DB 1 TATTGTGGCATATCATCTTTTGTACTAGTAGGACACTCCCGAGTCTAATTT 60
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QY 966 TATCTGCTGCATATCATATTTTGTACTAGTAGACACTCTGATGACAAATTTA 1025
|||
DB 61 AACATATATGCTCTACACAAATCCTGTGCCAATACATATGATCTCTAATTTAA 120
|||
QY 1026 AACATATATGCTCTACACAGTCTGTGCCAATACATATGATCTCTAATTTAA 1085
|||
DB 121 GCATATAGTAGACATGTGAGGAATATGATTTACATTTATTTTTCAGTTGACATAT 180
|||
QY 1086 GCAGTAGAGACATGTGAGGAATATGATTTGATTTTTCAGTTATGATGATAT 1145
|||
DB 181 TACTTAACTGACAGGTTATGTATATATCATATAGTATGATATGATTTTAA 240
|||
QY 1146 TACTTAACTGACAGGTTATGTATATATCATATAGTATGATATGATTTTAA 1205
|||
DB 241 TTGGAATTTTGGTGTACTCTCCACACCTACTACAAATTTAGTATGATGATTTGT 300
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QY 1206 TTGGAATTTTGGTGTCTCCACACCTACTACAAATTTAGTATGATGATTTGT 1265
|||
DB 301 GCATCCGTGTGTACTCTCCACACCTACTACAAATTTAGTATGATGATTTGT 360
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QY 1266 ACAATCTGTGTACTCTCCACACCTACTACAAATTTAGTATGATGATTTGT 1325
|||
DB 361 TGATTAATTAAGTTTGGACGTGACCTAAGGAAATTTTCCCGCATTT 414
|||
QY 1326 TGATTAATTAAGTTTGGACGTGACCTAAGGAAATTTTCCCGCATTT 1379
|||

RESULT 9
ID US-08-474-542A-14 STANDARD; DNA; UNC; 455 bp.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 14, Application US/08474542A.
CC Sequence 14, Application US/08474542A
CC Patent No. 3527898
CC GENERAL INFORMATION:
CC APPLICANT: Bauer, Heidi M.
CC APPLICANT: Gravitt, Patil E.
CC APPLICANT: Greer, Catherine E.
CC APPLICANT: Impraia, Chaka C.
CC APPLICANT: Manos, M. Michele
CC APPLICANT: Resnick, Robert M.
CC TITLE OF INVENTION: Detection of Human Papillomavirus by the
CC NUMBER OF SEQUENCES: 298
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Hoffmann-La Roche Inc.
CC STREET: 340 Kingsland Street
CC CITY: Nutley
CC STATE: New Jersey
CC COUNTRY: U.S.A.
CC ZIP: 07110
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/474,542A
CC FILING DATE:
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Betty, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9234

CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 14:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 455 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
SQ Sequence 455 bp; 131 A; 88 C; 79 G; 144 T; 13 other;
Query Match 16.5%; Score 251; DB 5; Length 455;
Best Local Similarity 74.9%; Pred. No. 2.99e-184;
Matches 341; Conservative 12; Mismatches 102; Indels 0; Gaps 0;

DB 1 GCMGAGGACATATAATATGATATGTTGGACATCATATTTTAAAGTTTNGAT 60
|||
QY 946 GCACAGGCTCATACATATGATATGCTGCTGCATATCATATTTTGTACTGTGTNGAT 1005
|||
DB 61 ACTACTGACAGCACCATCTCTGTGTGCTCTACTCTCTCTCTCTCTCTCTCTCT 120
|||
QY 1006 ACCACTGTAGTACCAATTTTACATATATGCTCTCTACACAGTCTCTGTACGGCAA 1065
|||
DB 121 TACACACTACAGTTTAAAGAAATATGACACATGTTGGAGATTTGATTTGACATTT 180
|||
QY 1066 TATGATGCTACCAATTTTAAAGAGTATACACACATGTTGAAGATATGATTTGACATTT 1125
|||
DB 181 ATATTCAGTGTGTAATATATACATTTACTACAGAGTATGATGATATCATATATAT 240
|||
QY 1126 ATTTTCAATGATGATATATATTTACTATGATGATGATGATGATGATGATGATG 1185
|||
DB 241 AATACACTATTTTGGAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTT 300
|||
QY 1186 AATGACAGTATTTGAGAGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 1245
|||
DB 301 GTTACACATACCTTTTGTTCATCTGCTGTACTGTGTAAAGACACCGCACG 360
|||
QY 1246 GTTACACATACCTTTTGTTCATCTGCTGTACTGTGTAAAGACACCGCACG 1305
|||
DB 361 CCACTTAACAGACCTTTATGACAACTAAAGTTTGGACCTTAATCTTAAGAAAG 420
|||
QY 1306 GCTAAATTAAGATCCCTATGATTAAGTTTGGATGTGATTTAAAGAAAG 1365
|||
DB 421 TTTTCTGACATCTTGATCATGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 455
|||
QY 1366 TTTTCTGACATCTTGATCATATATCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1400
|||

RESULT 10
ID US-08-457-648-14 STANDARD; DNA; UNC; 455 bp.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 14, Application US/08457648.
CC Sequence 14, Application US/08457648
CC Patent No. 5639871
CC GENERAL INFORMATION:
CC APPLICANT: Bauer, Heidi M.
CC APPLICANT: Gravitt, Patil E.
CC APPLICANT: Greer, Catherine E.
CC APPLICANT: Impraia, Chaka C.
CC APPLICANT: Manos, M. Michele
CC APPLICANT: Resnick, Robert M.
CC TITLE OF INVENTION: Detection of Human Papillomavirus by the
CC NUMBER OF SEQUENCES: 298
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Hoffmann-La Roche Inc.
CC STREET: 340 Kingsland Street
CC CITY: Nutley
CC STATE: New Jersey
CC COUNTRY: U.S.A.
CC ZIP: 07110

CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/457,648
CC FILING DATE:
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Petry, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9205
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 14:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 455 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
SQ Sequence 455 BP; 131 A; 88 C; 79 G; 144 T; 13 other;

Query Match 16.5%; Score 251; DB 6; Length 455;
Best Local Similarity 74.9%; Pred. No. 2,996-184;
Matches 341; Conservative 12; Mismatches 102; Indels 0; Gaps 0;

Db 1 GCMCAGGGCATAAATGATATGTTGGCACAATCATTTGTTTAACTGTTAGAT 60
QY 946 GCACAGGGGTCATACATGATGCTGTCATTAACCAATTTGTTGCTGTGAGAT 1005
Db 61 ACTACTCGCAGCACAATCTTCTGTGCTGCTTACTACTTCTCTCTTCTAATGAA 120
QY 1006 ACCACTCGTAGACCAATTTACAAATATGCTTCTACACAGTCTCTTACTGGGCA 1065
Db 121 TACACACTCAAGTTTAAAGATATGCCAGACATGTGCGGAATTTGATTGCAATT 180
QY 1066 TATGATGTCACCAATTTAGACGATATACAGACATGTGAAGAAATATGATTGCAATT 1125
Db 181 AATATTCACCTGTAAATACMTTAATCTACAGAGTATGTCATACATATATATG 240
QY 1126 ATTTTCAGTTATGATCTATCTTAACTGACAGATGTTATGCTATATATATATG 1185
Db 241 AATACCACTATTTGGAGATTTGATTTGCTTACACACACCTCTCTGCTATTTA 300
QY 1186 AATAGAGATTTTGAAGATTTGGAATTTGCTTCTCTCTCTCTCTCTCTCTCT 1245
Db 301 GTTGACACATACCGTTTGTCAATCTGCTGTATGCTTGTCAAAAGACACCGCAG 360
QY 1246 GTGATATACATCTTTTGTACATCTGTGCTATATCTGTCAAAAGATCTGACCA 1305
Db 361 CCAGTTAAACAGACCTTATGACAACTAAAGTTTGGACGTAAATCTTTAAGGAAG 420
QY 1306 GCTGAATAAAGATCCCTATGATTAAGTTTGAATGTGATTTAAGGAAG 1365
Db 421 TTTTCTGCAGATCTGATGATGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 455
QY 1366 TTTTCTTGGACTTAGATCAATATCCCTCTGAGC 1400

CC APPLICANT: Imprialm, Chaka C.
CC APPLICANT: Manos, M. Michele
CC APPLICANT: Resnick, Robert M.
CC TITLE OF INVENTION: Detection of Human Papillomavirus by the
CC TIME OF INVENTION: Polymerase Chain Reaction
CC NUMBER OF SEQUENCES: 298
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Hoffmann-La Roche Inc.
CC STREET: 340 Kingsland Street
CC CITY: Nutley
CC STATE: New Jersey
CC COUNTRY: U.S.A.
CC ZIP: 07110
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/457,648
CC FILING DATE:
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Petry, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9205
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 283:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 467 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
SQ Sequence 467 BP; 141 A; 85 C; 81 G; 160 T; 0 other;

Query Match 16.5%; Score 251; DB 6; Length 467;
Best Local Similarity 77.6%; Pred. No. 2,996-184;
Matches 353; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

Db 7 GCACAGGGTCATAAATGATATGTTGGCATAATCAATTTCTTACTGTTGAT 66
QY 946 GCACAGGGGTCATACAAATGATGCTGTCATTAACCAATTTGTTGCTGTGAT 1005
Db 67 ACCACTCGCAGACCAATTTTCTTCTTCTTACTACTGATCACTGCTGACCAATAT 126
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RESULT 12
ID US-08-474-542A-283 STANDARD; DNA; UNC; 467 BP.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 283, Application US/08474542A.
CC Sequence 283, Application US/08474542A.
CC Patent No. 5527898
CC GENERAL INFORMATION:
CC APPLICANT: Bauer, Heidi M.
CC APPLICANT: Gravit, Patti E.
CC APPLICANT: Greer, Catherine E.
CC APPLICANT: Imprim, Chaka C.
CC APPLICANT: Manos, M. Michele
CC APPLICANT: Resnick, Robert M.
CC TITLE OF INVENTION: Detection of Human Papillomavirus by the
CC TITLE OF INVENTION: Polymerase Chain Reaction
CC NUMBER OF SEQUENCES: 298
CC CORRESPONDENCE ADDRESS: 298
CC ADDRESS: Hoffmann-La Roche Inc.
CC STREET: 340 Kingsland Street
CC CITY: Nutley
CC STATE: New Jersey
CC COUNTRY: U.S.A.
CC ZIP: 07110
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/474,542A
CC FILING DATE:
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Pelly, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9234
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 283:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 467 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
CC Sequence 467 BP; 141 A; 85 C; 81 G; 160 T; 0 other;
Query Match 15.5%; Score 251; DB 5; Length 467;
Best Local Similarity 77.6%; Pred. No. 2,99e-184;
Matches 353; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

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Qy 1246 GTGGATACATATCGCTTTGTACAACTGTTGCTATCTGCTCAAAAGAGTGTGACCA 1305
Db 367 CCTACTAAAAGATCCATATGATGCTTAACTTTGGATGTAAATTTTAAAGAAAAG 426
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Qy 1366 TTTCTTTGGACTTATGATATATCCCTTGAGC 1400
RESULT 13
ID US-08-457-648-285 STANDARD; DNA; UNC; 467 BP.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 285, Application US/08457648.
CC Sequence 285, Application US/08457648
CC Patent No. 5639871
CC GENERAL INFORMATION:
CC APPLICANT: Bauer, Heidi M.
CC APPLICANT: Gravit, Patti E.
CC APPLICANT: Greer, Catherine E.
CC APPLICANT: Imprim, Chaka C.
CC APPLICANT: Manos, M. Michele
CC APPLICANT: Resnick, Robert M.
CC TITLE OF INVENTION: Detection of Human Papillomavirus by the
CC TITLE OF INVENTION: Polymerase Chain Reaction
CC NUMBER OF SEQUENCES: 298
CC CORRESPONDENCE ADDRESS:
CC ADDRESS: Hoffmann-La Roche Inc.
CC STREET: 340 Kingsland Street
CC CITY: Nutley
CC STATE: New Jersey
CC COUNTRY: U.S.A.
CC ZIP: 07110
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/457,648
CC FILING DATE:
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Pelly, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9205
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 285:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 467 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
CC Sequence 467 BP; 136 A; 94 C; 85 G; 152 T; 0 other;
Query Match 15.8%; Score 241; DB 6; Length 467;
Best Local Similarity 76.5%; Pred. No. 8.64e-176;
Matches 348; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

Wed Sep 24 09:33:12 1997

US-08-409-122-1.rn1

Page 12

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CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Petry, Douglas A.
CC REGISTRATION NUMBER: 35,321
CC REFERENCE/DOCKET NUMBER: 9234
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (510) 814-2974
CC TELEFAX: (510) 814-2977
CC INFORMATION FOR SEQ ID NO: 296:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 464 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
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Query Match 14.7%; Score 224; DB 5; Length 464;
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Matches 353; Conservative 0; Mismatches 111; Indels 3; Gaps 3;

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Search completed: Wed Sep 24 00:05:31 1997
Job time : 142 secs.

 W I N D O W S
 ***** (TM)

Release 2.1D John F. Collins, Biocomputing Research Unit.
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MPerch_n n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Wed Sep 24 00:05:52 1997; Maspar time 813.86 Seconds

Tabular output not generated. 1027,680 Million cell updates/sec

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 N.A. Sequence: 1 ATGGCTTTGTGGCGGGCTAG.....GTGTAGTGCAGAGATGA 1524
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Scoring table: TABLE default

Gap 6

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Searched: 929887 seqs, 27440424 bases x 2

Post-processing: Minimum Match 08
 Listing first 45 summaries

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n-pending
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 721: U150.5 722: U150.6 723: U150.7 724: U150.8 725: U150.9 726: U151.0
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 733: U151.7 734: U151.8 735: U151.9 736: U152.0 737: U152.1 738: U152.2
 739: U152.3 740: U152.4 741: U152.5 742: U152.6 743: U152.7 744: U152.8
 745: U152.9 746: U153.0 747: U153.1 748: U153.2 749: U153.3 750: U153.4
 751: U153.5 752: U153.6 753: U153.7 754: U153.8 755: U153.9 756: U154.0
 757: U154.1 758: U154.2 759: U154.3 760: U154.4 761: U154.5 762: U154.6
 763: U154.7 764: U154.8 765: U154.9 766: U155.0 767: U155.1 768: U155.2
 769: U155.3 770: U155.4 771: U155.5 772: U155.6 773: U155.7 774: U155.8
 775: U155.9 776: U156.0 777: U156.1 778: U156.2 779: U156.3 780: U156.4
 781: U156.5 782: U156.6 783: U156.7 784: U156.8 785: U156.9 786: U157.0
 787: U157.1 788: U157.2 789: U157.3 790: U157.4 791: U157.5 792: U157.6
 793: U157.7 794: U157.8 795: U157.9 796: U158.0 797: U158.1 798: U158.2
 799: U158.3 800: U158.4 801: U158.5 802: U158.6 803: U158.7 804: U158.8
 805: U158.9 806: U159.0 807: U159.1 808: U159.2 809: U159.3 810: U159.4
 811: U159.5 812: U159.6 813: U159.7 814: U159.8 815: U159.9 816: U160.0
 817: U160.1 818: U160.2 819: U160.3 820: U160.4 821: U160.5 822: U160.6
 823: U160.7 824: U160.8 825: U160.9 826: U161.0 827: U161.1 828: U161.2
 829: U161.3 830: U161.4 831: U161.5 832: U161.6 833: U161.7 834: U161.8
 835: U161.9 836: U162.0 837: U162.1 838: U162.2 839: U162.3 840: U162.4
 841: U162.5 842: U162.6 843: U162.7 844: U162.8 845: U162.9 846: U163.0
 847: U163.1 848: U163.2 849: U163.3 850: U163.4 851: U163.5 852: U163.6
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 883: U166.7 884: U166.8 885: U166.9 886: U167.0 887: U167.1 888: U167.2
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 901: U168.5 902: U168.6 903: U168.7 904: U168.8 905: U168.9 906: U169.0
 907: U169.1 908: U169.2 909: U169.3 910: U169.4 911: U169.5 912: U169.6
 913: U169.7 914: U169.8 915: U169.9 916: U170.0 917: U170.1 918: U170.2
 919: U170.3 920: U170.4 921: U170.5 922: U170.6 923: U170.7 924: U170.8
 925: U170.9 926: U171.0 927: U171.1 928: U171.2 929: U171.3 930: U171.4
 931: U171.5 932: U171.6 933: U171.7 934: U171.8 935: U171.9 936: U172.0
 937: U172.1 938: U172.2 939: U172.3 940: U172.4 941: U172.5 942: U172.6
 943: U172.7 944: U172.8 945: U172.9 946: U173.0 947: U173.1 948: U173.2
 949: U173.3 950: U173.4 951: U173.5 952: U173.6 953: U173.7 954: U173.8
 955: U173.9 956: U174.0 957: U174.1 958: U174.2 959: U174.3 960: U174.4
 961: U174.5 962: U174.6 963: U174.7 964: U174.8 965: U174.9 966: U175.0
 967: U175.1 968: U175.2 969: U175.3 970: U175.4 971: U175.5 972: U175.6
 973: U175.7 974: U175.8 975: U175.9 976: U176.0 977: U176.1 978: U176.2
 979: U176.3 980: U176.4 981: U176.5 982: U176.6 983: U176.7 984: U176.8
 985: U176.9 986: U177.0 987: U177.1 988: U177.2 989: U177.3 990: U177.4
 991: U177.5 992: U177.6 993: U177.7 994: U177.8 995: U177.9 996: U178.0
 997: U178.1 998: U178.2 999: U178.3 1000: U178.4 1001: U178.5 1002: U178.6
 1003: U178.7 1004: U178.8 1005: U178.9 1006: U179.0 1007: U179.1 1008: U179.2
 1009: U179.3 1010: U179.4 1

REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 19424
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-6734
TELEFAX: 908-594-4720
TELETYPE:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1524 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
Sequence 1524 BP: 396 A; 292 C; 337 G; 499 T; 0 other:

Query Match 100.0%; Score 1524; DB 56; Length 1524;
Best Local Similarity 100.0%; Pred. No. 0.00e+00;
Matches 1524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGGCTTTGTGGCGGCTAGTACCAATACCGTATACCTTCACCTCCTTCTGTGGCAAGA 60
1 ATGGCTTTGTGGCGGCTAGTACCAATACCGTATACCTTCACCTCCTTCTGTGGCAAGA 60
Qy 61 GTTGTAATACGATGATTAATGACTCGACACACATATTTTATCATGCTGCGACGCTCT 120
61 GTTGTAATACGATGATTAATGACTCGACACACATATTTTATCATGCTGCGACGCTCT 120
Db 121 AGATTATTAAGTGTGTAATCCATATTTTGGGTTCTCGAGGTGGTGGCAATAGCAG 180
121 AGATTATTAAGTGTGTAATCCATATTTTGGGTTCTCGAGGTGGTGGCAATAGCAG 180
Qy 121 AGATTATTAAGTGTGTAATCCATATTTTGGGTTCTCGAGGTGGTGGCAATAGCAG 180
121 AGATTATTAAGTGTGTAATCCATATTTTGGGTTCTCGAGGTGGTGGCAATAGCAG 180
Db 181 GATATTCCTAAGGTTTCGCAATACCAATATAGATTTTCGGGTGCGAGTTACTACCA 240
181 GATATTCCTAAGGTTTCGCAATACCAATATAGATTTTCGGGTGCGAGTTACTACCA 240
Qy 181 GATATTCCTAAGGTTTCGCAATACCAATATAGATTTTCGGGTGCGAGTTACTACCA 240
181 GATATTCCTAAGGTTTCGCAATACCAATATAGATTTTCGGGTGCGAGTTACTACCA 240
Db 241 AATAAATTTGTTACCTGATATATGATTTATATCCGAAACACACAGCTTATGTTGG 300
241 AATAAATTTGTTACCTGATATATGATTTATATCCGAAACACACAGCTTATGTTGG 300
Qy 241 AATAAATTTGTTACCTGATATATGATTTATATCCGAAACACACAGCTTATGTTGG 300
241 AATAAATTTGTTACCTGATATATGATTTATATCCGAAACACACAGCTTATGTTGG 300
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301 GCCTGTGCTGGAATGGAATGGCGGTGTCAGCCTTAGGTGGCTTGTGGGCAAT 360
Qy 301 GCCTGTGCTGGAATGGAATGGCGGTGTCAGCCTTAGGTGGCTTGTGGGCAAT 360
301 GCCTGTGCTGGAATGGAATGGCGGTGTCAGCCTTAGGTGGCTTGTGGGCAAT 360
Db 361 CCATTTTAAATTAATTAATGATGACATGAAAGTCCCATGGCGGTAGCTAATGTTCT 420
361 CCATTTTAAATTAATTAATGATGACATGAAAGTCCCATGGCGGTAGCTAATGTTCT 420
Qy 361 CCATTTTAAATTAATTAATGATGACATGAAAGTCCCATGGCGGTAGCTAATGTTCT 420
361 CCATTTTAAATTAATTAATGATGACATGAAAGTCCCATGGCGGTAGCTAATGTTCT 420
Db 421 GAGACGTTAGGACAAATGTCGTGATATTAACACACACAGTTATATTGGGC 480
421 GAGACGTTAGGACAAATGTCGTGATATTAACACACACAGTTATATTGGGC 480
Qy 421 GAGACGTTAGGACAAATGTCGTGATATTAACACACACAGTTATATTGGGC 480
421 GAGACGTTAGGACAAATGTCGTGATATTAACACACACAGTTATATTGGGC 480
Db 481 TGTGCCCCCTGCTATTGGGGAACACTGGGCTAAGGACCTGTGAATGGCTCCTTA 540
481 TGTGCCCCCTGCTATTGGGGAACACTGGGCTAAGGACCTGTGAATGGCTCCTTA 540
Qy 481 TGTGCCCCCTGCTATTGGGGAACACTGGGCTAAGGACCTGTGAATGGCTCCTTA 540
481 TGTGCCCCCTGCTATTGGGGAACACTGGGCTAAGGACCTGTGAATGGCTCCTTA 540
Db 541 TCACAGGCGCATTTGCCCTTTAAGATTAAACACAGTTTGGAAAGTGTGATATG 600
541 TCACAGGCGCATTTGCCCTTTAAGATTAAACACAGTTTGGAAAGTGTGATATG 600
Qy 541 TCACAGGCGCATTTGCCCTTTAAGATTAAACACAGTTTGGAAAGTGTGATATG 600
541 TCACAGGCGCATTTGCCCTTTAAGATTAAACACAGTTTGGAAAGTGTGATATG 600
Db 601 GTAGATCTGATATGTCATGCACTTGAATCTGATTTTCAAAATGCTGAGAT 660
601 GTAGATCTGATATGTCATGCACTTGAATCTGATTTTCAAAATGCTGAGAT 660
Qy 601 GTAGATCTGATATGTCATGCACTTGAATCTGATTTTCAAAATGCTGAGAT 660
601 GTAGATCTGATATGTCATGCACTTGAATCTGATTTTCAAAATGCTGAGAT 660
Db 661 CCATTGATATTTGTCAGTCTATTGTAATATCCTGATTTTCAAAATGCTGAGAT 720
661 CCATTGATATTTGTCAGTCTATTGTAATATCCTGATTTTCAAAATGCTGAGAT 720
Qy 661 CCATTGATATTTGTCAGTCTATTGTAATATCCTGATTTTCAAAATGCTGAGAT 720
661 CCATTGATATTTGTCAGTCTATTGTAATATCCTGATTTTCAAAATGCTGAGAT 720
Db 721 CCTATGGGATTCATGTTTGTGTTAGAGAGTACAGCTTTTGTAGGCAATTT 780
721 CCTATGGGATTCATGTTTGTGTTAGAGAGTACAGCTTTTGTAGGCAATTT 780

Qy 721 CCTATGGGATTCATGTTTGTGTTAGAGAGTACAGCTTTTGTAGGCAATTT 780
Db 781 TGGATAGGCGAGTACTATGAGTACACTGTGCTCAATCTTATATTAAGGACAA 840
781 TGGATAGGCGAGTACTATGAGTACACTGTGCTCAATCTTATATTAAGGACAA 840
Qy 841 GGTATGCGTGTACCTGCGACAGTGTGATTTCCCTCCCAAGGCGCTATGTT 900
841 GGTATGCGTGTACCTGCGACAGTGTGATTTCCCTCCCAAGGCGCTATGTT 900
Qy 841 GGTATGCGTGTACCTGCGACAGTGTGATTTCCCTCCCAAGGCGCTATGTT 900
841 GGTATGCGTGTACCTGCGACAGTGTGATTTCCCTCCCAAGGCGCTATGTT 900
Db 901 ACCTGACCTCCAGTGTGTTAATAACATATGTTGATATTAAGGCGAGGCTATAC 960
901 ACCTGACCTCCAGTGTGTTAATAACATATGTTGATATTAAGGCGAGGCTATAC 960
Qy 901 ACCTGACCTCCAGTGTGTTAATAACATATGTTGATATTAAGGCGAGGCTATAC 960
901 ACCTGACCTCCAGTGTGTTAATAACATATGTTGATATTAAGGCGAGGCTATAC 960
Db 961 AATGATCTGCTGCGATATCAATATTTGTTGATGATATTAAGGCGAGGCTATAC 1020
961 AATGATCTGCTGCGATATCAATATTTGTTGATGATATTAAGGCGAGGCTATAC 1020
Qy 961 AATGATCTGCTGCGATATCAATATTTGTTGATGATATTAAGGCGAGGCTATAC 1020
961 AATGATCTGCTGCGATATCAATATTTGTTGATGATATTAAGGCGAGGCTATAC 1020
Db 1021 AATTAAACATATGCTGCTGATACAGTCTGCTACCTGCTGCTGCTGCTGCTGCT 1080
1021 AATTAAACATATGCTGCTGATACAGTCTGCTACCTGCTGCTGCTGCTGCTGCT 1080
Qy 1021 AATTAAACATATGCTGCTGATACAGTCTGCTACCTGCTGCTGCTGCTGCTGCT 1080
1021 AATTAAACATATGCTGCTGATACAGTCTGCTACCTGCTGCTGCTGCTGCTGCT 1080
Db 1081 TTTAAGCAGTATAGCAGATGTTGAAGATATGATTTGACGTTATTTTCAATATG 1140
1081 TTTAAGCAGTATAGCAGATGTTGAAGATATGATTTGACGTTATTTTCAATATG 1140
Qy 1081 TTTAAGCAGTATAGCAGATGTTGAAGATATGATTTGACGTTATTTTCAATATG 1140
1081 TTTAAGCAGTATAGCAGATGTTGAAGATATGATTTGACGTTATTTTCAATATG 1140
Db 1141 ACTATTAATTAAGTATGATATGATTTGATATGATATGATATGATATGATATTTA 1200
1141 ACTATTAATTAAGTATGATATGATTTGATATGATATGATATGATATGATATTTA 1200
Qy 1141 ACTATTAATTAAGTATGATATGATTTGATATGATATGATATGATATGATATTTA 1200
1141 ACTATTAATTAAGTATGATATGATTTGATATGATATGATATGATATGATATTTA 1200
Db 1201 GAGATATGGAATTTGTTGTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 1260
1201 GAGATATGGAATTTGTTGTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 1260
Qy 1201 GAGATATGGAATTTGTTGTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 1260
1201 GAGATATGGAATTTGTTGTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 1260
Db 1261 TTTGTACAACTGTTGCTATTACCTGCTCAAAAGGATGCTGACACAGTGAATATGAT 1320
1261 TTTGTACAACTGTTGCTATTACCTGCTCAAAAGGATGCTGACACAGTGAATATGAT 1320
Qy 1261 TTTGTACAACTGTTGCTATTACCTGCTCAAAAGGATGCTGACACAGTGAATATGAT 1320
1261 TTTGTACAACTGTTGCTATTACCTGCTCAAAAGGATGCTGACACAGTGAATATGAT 1320
Db 1321 CCCATGATATGATTAAGTATTTGGAATGGAATTTAAGGAAAGTTTCTTGGACTTA 1380
1321 CCCATGATATGATTAAGTATTTGGAATGGAATTTAAGGAAAGTTTCTTGGACTTA 1380
Qy 1321 CCCATGATATGATTAAGTATTTGGAATGGAATTTAAGGAAAGTTTCTTGGACTTA 1380
1321 CCCATGATATGATTAAGTATTTGGAATGGAATTTAAGGAAAGTTTCTTGGACTTA 1380
Db 1381 GATCAATATCCCTGACGAAATTTTGGTTCAGGCTGATGCTGCGAAGCCGAT 1440
1381 GATCAATATCCCTGACGAAATTTTGGTTCAGGCTGATGCTGCGAAGCCGAT 1440
Qy 1381 GATCAATATCCCTGACGAAATTTTGGTTCAGGCTGATGCTGCGAAGCCGAT 1440
1381 GATCAATATCCCTGACGAAATTTTGGTTCAGGCTGATGCTGCGAAGCCGAT 1440
Db 1441 ATAGGCGCTGTAAGGTTTGGCTCCATCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
1441 ATAGGCGCTGTAAGGTTTGGCTCCATCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Qy 1441 ATAGGCGCTGTAAGGTTTGGCTCCATCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
1441 ATAGGCGCTGTAAGGTTTGGCTCCATCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db 1501 GTGGGTAGGCGGAGGAACTAA 1524
1501 GTGGGTAGGCGGAGGAACTAA 1524
Qy 1501 GTGGGTAGGCGGAGGAACTAA 1524
1501 GTGGGTAGGCGGAGGAACTAA 1524

RESULT 2
US-08-409-122-1 STANDARD; DNA; UNC; 1524 BP.

AC xxxxxx
DT 01-JAN-1900
CC Sequence 1, Application US/08409122.
CC Sequence 1, Application US/08409122.
CC GENERAL INFORMATION:
CC APPLICANT: JORGE, JAMES G.
CC APPLICANT: GEORGE, HUGH A.
CC APPLICANT: HOFMANN, KATHRYN J.
CC APPLICANT: JANSSEN, KATHRYN U.
CC APPLICANT: NEPPER, MICHAEL P.
CC TITLE OF INVENTION: DNA ENCODING HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE
CC NUMBER OF SEQUENCES: 16
CC CORRESPONDENCE ADDRESSES:
CC ADDRESSEE: CHRISTINE E. CARY - MERCK & CO., INC.
CC STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000
CC CITY: RAHWAY

CC STATE: NJ
CC COUNTRY: US
CC ZIP: 07065-0907
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Diskette
CC COMPUTER: IBM Compatible
CC OPERATING SYSTEM: DOS
CC SOFTWARE: FastSeq Version 1.5
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/409.122
CC FILING DATE:
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: 08/408,669
CC FILING DATE: 22-MAR-1995
CC ATTORNEY/AGENT INFORMATION:
CC NAME: CARTY, CHRISTINE E
CC REGISTRATION NUMBER: 36,099
CC REFERENCE/DOCKET NUMBER: 19425
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 908-594-6734
CC TELEFAX: 908-594-4720
CC TELEX:
CC INFORMATION FOR SEQ ID NO: 1:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1524 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: cDNA
CC HYPOTHEICAL: NO
CC ANTI-SENSE: NO
CC FRAGMENT TYPE:
CC ORIGINAL SOURCE:
CC Sequence 1524 BP: 396 A; 292 C; 337 G; 499 T; 0 other;
SQ
Query Match 100.0%; Score 1524; DB 56; Length 1524;
Best Local Similarity 100.0%; Pred. No. 0.00e+00;
Matches 1524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGGCTTGTGGCGGCGCTAGTACATACCGTATACCTTCACACCTTCCTGTGGCAAGA 60
Qy 1 ATGGCTTGTGGCGGCGCTAGTACATACCGTATACCTTCACACCTTCCTGTGGCAAGA 60
Db 61 GTTGAATACTGATGATTATGTGACTCGACAGCATATTTATCATGCTGCGACGCTCT 120
Qy 61 GTTGAATACTGATGATTATGTGACTCGACAGCATATTTATCATGCTGCGACGCTCT 120
Db 121 AGATTATTAACGTGTGTTATCCATATTTTAGGTTCTCGACAGTGTGGCAATAAGCAG 180
Qy 121 AGATTATTAACGTGTGTTATCCATATTTTAGGTTCTCGACAGTGTGGCAATAAGCAG 180
Db 181 GATTATTCCTAAGGTTCTGCATACCAATATAGTATTCGGGTGCGAGTTACTGACCCA 240
Qy 181 GATTATTCCTAAGGTTCTGCATACCAATATAGTATTCGGGTGCGAGTTACTGACCCA 240
Db 241 AATAAATTTGGTTTACCTGATATAGTATTTAATCCCTGAACAACAAGTTAGTGTG 300
Qy 241 AATAAATTTGGTTTACCTGATATAGTATTTAATCCCTGAACAACAAGTTAGTGTG 300
Db 301 GCCTGTGCGAGTGGAAATTTGGCGTGTGACGCTTTGGTGTGGCTTGTGCGCAT 360
Qy 301 GCCTGTGCGAGTGGAAATTTGGCGTGTGACGCTTTGGTGTGGCTTGTGCGCAT 360
Db 361 CCATTTTATTAATTAATTAAGTACACTGAAGTTCCTCAAGCGCTACGTATGTTTCT 420
Qy 361 CCATTTTATTAATTAATTAAGTACACTGAAGTTCCTCAAGCGCTACGTATGTTTCT 420
Db 421 GAGGACGTTAGGACAAATGTCTGTAGATTAAACACACACAGTTATATTTTGGGC 480
Qy 421 GAGGACGTTAGGACAAATGTCTGTAGATTAAACACACACAGTTATATTTTGGGC 480
Db 481 TGTGCCCTGCTATTGGGGAACACTGGGCTAAAGGACACTGCTTGTAAATCGGCTCTTTA 540

Qy 481 TGTGCCCTGCTATTGGGGAACACTGGGCTAAAGGACACTGCTTGTAAATCGGCTCTTTA 540
Db 541 TCACAGGGCGATTGGCCCCCTTTAGAACTTAAGAACACAGTTTGGAGATGTGATATG 600
Qy 541 TCACAGGGCGATTGGCCCCCTTTAGAACTTAAGAACACAGTTTGGAGATGTGATATG 600
Db 601 GTAGATAGTATAGTGGCCATGACCTTTAGTACATTGCAAGATCTAATATGAGATA 660
Qy 601 GTAGATAGTATAGTGGCCATGACCTTTAGTACATTGCAAGATCTAATATGAGATA 660
Db 661 CCATGGAATTTGTGACGTTATTTGTAATATCCTGATTTTATTAACAATGTCGCAGAT 720
Qy 661 CCATGGAATTTGTGACGTTATTTGTAATATCCTGATTTTATTAACAATGTCGCAGAT 720
Db 721 CCTATGGGGATTCATGTTTTTTTGTCTTAGACGTGACAGCTTTTGTAGGCAATTT 780
Qy 721 CCTATGGGGATTCATGTTTTTTTGTCTTAGACGTGACAGCTTTTGTAGGCAATTT 780
Db 781 TGAATTAGGACGATGATAGTGGGTGACACTGTGCTCAATCCTTATATTAAGGCACA 840
Qy 781 TGAATTAGGACGATGATAGTGGGTGACACTGTGCTCAATCCTTATATTAAGGCACA 840
Db 841 GGTATGCGGTCTCACCGGACGCTGTGATTCCTCCCTCCAGTGGCTATTTGT 900
Qy 841 GGTATGCGGTCTCACCGGACGCTGTGATTCCTCCCTCCAGTGGCTATTTGT 900
Db 901 ACCCTGACTCCAGTTGTTTAAATAACCATATGTTGATACATAAGGACAGGTCATAC 960
Qy 901 ACCCTGACTCCAGTTGTTTAAATAACCATATGTTGATACATAAGGACAGGTCATAC 960
Db 961 AATGATCTGCTGGCATATCAATATTTGTTACTGTGTAGATACACGTCGTAGTACC 1020
Qy 961 AATGATCTGCTGGCATATCAATATTTGTTACTGTGTAGATACACGTCGTAGTACC 1020
Db 1021 AATTTAAACAATATGCTGCTTACACAGTCTCCTGACTGGGCAATAGATCTACCAA 1080
Qy 1021 AATTTAAACAATATGCTGCTTACACAGTCTCCTGACTGGGCAATAGATCTACCAA 1080
Db 1081 TTTAAGCAGTATAGCAGCATGTTGAATAATATGTTGCAATTTTTCAGTATGT 1140
Qy 1081 TTTAAGCAGTATAGCAGCATGTTGAATAATATGTTGCAATTTTTCAGTATGT 1140
Db 1141 ACTATTTACTTAACTGACAGATGTTATGCTATATTCATATGATATGACAGATTTTA 1200
Qy 1141 ACTATTTACTTAACTGACAGATGTTATGCTATATTCATATGATATGACAGATTTTA 1200
Db 1201 GAGGATTTGGAAGTGTGTTGCTTCCCGCCCGCCACTACTAGTTTGTGATACATATGCT 1260
Qy 1201 GAGGATTTGGAAGTGTGTTGCTTCCCGCCCGCCACTACTAGTTTGTGATACATATGCT 1260
Db 1261 TTTGATCAATGCTGTGATTAACGTGCTCAAAAGATGTGACACGCTGAATAAGAT 1320
Qy 1261 TTTGATCAATGCTGTGATTAACGTGCTCAAAAGATGTGACACGCTGAATAAGAT 1320
Db 1321 CCCATGATTAAGTAAAGTTTGGATGTGATTTAAAGGAAAGTTTCTTGGACTTA 1380
Qy 1321 CCCATGATTAAGTAAAGTTTGGATGTGATTTAAAGGAAAGTTTCTTGGACTTA 1380
Db 1381 GATCAATATCCCTTTGAGAGTAAATTTTGTTCAGGCTGATGCTGCGAAGCCACC 1440
Qy 1381 GATCAATATCCCTTTGAGAGTAAATTTTGTTCAGGCTGATGCTGCGAAGCCACC 1440
Db 1441 ATAGGCGCTGTAAGCGTTGCTCATCTGCACTAGTCTTCAAAACGCGCAAGGCT 1500
Qy 1441 ATAGGCGCTGTAAGCGTTGCTCATCTGCACTAGTCTTCAAAACGCGCAAGGCT 1500
Db 1501 GTGCGTGTACGTCGACGAGAGTAA 1524
Qy 1501 GTGCGTGTACGTCGACGAGAGTAA 1524

RESULT 3

AC	US-08-468-057A-9 STANDARD; DNA; UNC; 7833 BP.
NC	xxxxxx
DT	01-JAN-1900
DE	Sequence 9, Application US/08468057A.
CC	Sequence 9, Application US/08468057A
CC	GENERAL INFORMATION:
CC	APPLICANT: Ortho, Gerard
CC	APPLICANT: Volpears, Christoph
CC	TITLE OF INVENTION: Streak, Rolf
CC	TITLE OF INVENTION: Bif Sequences Derived from the Genome of
CC	TITLE OF INVENTION: the Papillomavirus HPV39, Their Use In Vitro Di
CC	agnosis
CC	TITLE OF INVENTION: and for the Production of an Immunogenic Compositio
CC	on
CC	NUMBER OF SEQUENCES: 11
CC	CORRESPONDENCE ADDRESS: Finnergan, Henderson, Farabow, Garrett &
CC	ADDRESSEE: Finnergan, Henderson, Farabow, Garrett &
CC	ADDRESSER: Dunner
CC	STREET: 1300 I Street, N.W.
CC	CITY: Washington
CC	STATE: DC
CC	COUNTRY: USA
CC	ZIP: 20005-3315
CC	COMPUTER READABLE FORM:
CC	MEDIUM TYPE: Floppy disk
CC	COMPUTER: IBM PC compatible
CC	OPERATING SYSTEM: PC-DOS/MS-DOS
CC	SOFTWARE: PatentIn Release #1.0, Version #1.25
CC	CURRENT APPLICATION DATA:
CC	APPLICATION NUMBER: US/08/468,057A
CC	FILING DATE: 06-JUN-1993
CC	CLASSIFICATION: 435
CC	Prior APPLICATION DATA:
CC	APPLICATION NUMBER: US 08/074,879
CC	FILING DATE: 16-JUN-1993
CC	APPLICATION NUMBER: WO 92/1136
CC	FILING DATE: 09-JUL-1992
CC	ATTORNEY/AGENT INFORMATION:
CC	NAME: Potter, Jane E.R.
CC	REGISTRATION NUMBER: 33,332
CC	REFERENCE/DOCKET NUMBER: 02356, 0056-00000
CC	TELECOMMUNICATION INFORMATION:
CC	TELEPHONE: 202-408-4000
CC	TELEFAX: 202-408-4400
CC	INFORMATION FOR SEQ ID NO: 9:
CC	SEQUENCE CHARACTERISTICS:
CC	LENGTH: 7833 base pairs
CC	TYPE: nucleic acid
CC	STRANDEDNESS: single
CC	TOPOLOGY: linear
CC	MOLECULE TYPE: DNA (genomic)
CC	Sequence 7833 BP: 2426 A; 1485 C; 1660 G; 2262 T; 0 other;
SQ	
Query Match	47.3% Score 721; DB 62; Length 7833;
Best Local Similarity	74.8%; Pred. No. 0.00e+00;
Matches 1110: Conservative	0; Mismatches 371; Indels 3; Gaps 1;
Dn	5643 ATGGCATATGCGCGGTCTAGTCAGCAGCATGTTGTCCTCCACCTCTGTGGCANAG 5702
Qy	1 ATGGCTTGTGGCGGCCTAGTGACAATACCGTATACCCTTCACACTCTCTGTGGCANAG 60
Dn	5703 GTTGCAATACGATGATATATATGTTATGACAGCAGCAGCATATATATATGCTGGAGCTCT 5762
Qy	61 GTTGTAATAACGATGATATATGATGATGACGSCAACGAATATTTATCATGCTGGAGCTCT 120
Dn	5763 AGATATATACAGTAGTGACATCCATATTTTAAAGTGGATAGATGGTGTGCGACAG 5822
Qy	121 AGATATATACAGTGTGATATCCATATTTTATGAGGTCTCGCAGGTGGTGGCAATAGAG 180
Dn	5823 GACATTCGAAGAAGTCTCGATATCAATATATGAGTATTTTCGCGAGACATGCCGACATCT 5882
Qy	181 GATATTCCTAGAGTTTTCGATATCCAAATATGAGATATTTTCGGGTGGAGTACTAGTACCCA 240

D5	5893	AAATAATCAGTATCCAGATGCGATCCCTTATATATACCAAGAAACAAACAGCTTGGATG	5942
OY	241	ATATAATTGGTTTACTGATATATAGTATTATATACCGAAGAACAAACAGTTTGGTGG	300
D5	5943	GCTGTGTAGGGGTGAGAGGTGGGACAGGGGCGACCAATGGGGTGTGGTATGAGGACAA	6002
OY	301	GCGTGTCTGTAGGTGGAATGGGATGGCGGTGTGACCTTTAGGTGTGGCCTTAGTGGGCA	360
D5	6003	CCATTATATATAGACAGATGATACGTAAACTGC---CATTTTCAATCAACCAACAA	6059
OY	361	CCATTTTATATAATTAATTAATGATAGACACTAAAGTTCCCATGCCGCTAGCTTAAGTTC	420
D5	6060	AAGGACAGTAGGAGATATGTGTCTGATTTATTAACACACACAGTTGTGCTTATAGGC	6119
OY	421	GAGGACCTTAGGGACAAATGGTGTGTATATTAATTAACACACAGTTATGATTTTGGCG	480
D5	6120	TGTGTCCCGCCATTGGGGGAGCACTGGGTAAAGGGAAGGACATGCAGCCCAATATGTA	6179
OY	481	TGTGCCCTCTATTTGGGGAACACTGGCTTAAGGACACGTCTGTAAATGGGCTCTTTA	540
D5	6180	TCTACGGGGGACAGTGCCTCTTGGACATAGTAACACCCCTATGGATGGATGATG	6239
OY	541	TCAAGGGGCATATGCCCGCTTTAGACTTAAGAACAGTTTGGAGATGGATATG	600
D5	6240	ATTGATCTGTGGTAATGAGCATATGAGCTTGGTGCATTCAGAGAAACAAAGTAGAGT	6299
OY	601	GTAGATCTGGATATGTGGCATGAGCATCTTATGATCAAGATACATTAATATGTAGGTA	660
D5	6300	CCCTTAAGTATTTTGGCATACCATTTGTAAATTCCTATTTTGCAAATGCTGCAGAT	6359
OY	661	CCATTGATATTGTTCAGTCACTATTGTAAATTCCTGATTTATTCAAATGTGTGCAGAT	720
D5	6360	GTGTATGGGACAGTATGTCTCTGTCTGTATAGTAGGGAACAGCTTTGGACAACTTTT	6419
OY	721	CCTTATGGGGATCCCATGTGTTTTTTTGTCTTAGACAGTAGAGACCTTTTGGTAGCACTTT	780
D5	6420	TGGATCTGTGTGTATGTGTGGGTGACGCCATCTCTCCCAATCTGTATTAAGGACAA	6479
OY	781	TGGATATGGGAGAGTACTATGGGAGACGTGGCCTATACCTTTATATTAAGGACAA	840
D5	6480	GATATACGTGCMAACCCCGAGTGTCTGTATACGTGCCCCCTTCGACGGGTTCATAGTA	6539
OY	841	GGTATGCTGTCTCACCTGGACAGCTGTGTGTCTCTCCCTTCMAAGGGCTCTATGTT	900
D5	6540	ACCTGTGATTCGCCAGTATTTTAAATACCTTTATGGCTACATPAAGGCCAGGCCCAAC	6599
OY	901	ACCTGTGACTCCAGTGTGTTTAAATMAACAATTTGGTTACATPAAGGCAGGGGTCTATAAC	960
D5	6600	AATGGATATCTGGCAATATCATATTTTCTTAAGTCTGTGACACATACCCGTAGTAC	6659
OY	961	AATGGATCTGTGGCATATCATATTTTGTGTATGTGTGTATATACCACTGCTAGTAC	1020
D5	6660	AACCTTACATATCTACCCCTATGATGTCTGCATACACTTCTTCATATGATCTTTAAG	6719
OY	1021	AATTTACAAATATGTCTTACACAGATGCTGCTACTGGCAATATGATGTACCAAA	1080
D5	6720	TTTAAGGATATACAGGACAGTGGAGAGATATTTTAAATTTATTTTCAACGTGT	6779
OY	1081	TTTACAGATATACAGACATATTTGAAGAAATATGATTTGCAAGTTATTTTCAGTATGT	1140
D5	6780	ACGTGCACATTACACATATATATCTATCTATATCAACTATGAAATTCCTCTATATAG	6839
OY	1141	ACATTAATCTTAACTGAGATATTTTGTCTATATTCATATGATATGATAGCAGATATTTA	1200
D5	6840	GACAAATGGAATTTGCTGTAGCTCTCCACACATCTGCCAGTTGGGTAGACACTTACA	6899
OY	1201	GAGATATGGAACCTTGTGTGTCTCCCGCCCACTACTATATTTGGTGGATCATATGT	1260
D5	6900	TACCTACAGTCTGCAGCATTTACATGTCAAAAGAGTCTCCAGCATCTGAAAACAAGAT	6959
OY	1261	TTGTGTACATCTGTTGCTATTTACCTGTCAAAAAGATGCTGTGCACACTGAAAATAAGAT	1320
D5	6960	CCATATGAGGCTCAATGTTTGAATGTGACTTAAAGGAAAAGTTTATGTTGGACATT	7019

Qy	1321	CCCATATGATAGTTAAAGATTTTGGATGTGATTTAAAGGAAATTTCTTTGGACTTA	1380
Db	7020	GATCAATTCCTTTGGACGTAATTTTGTTCAGAGCCAGGCTCCGAGCCCTTACT	7079
Qy	1381	GATCAATTCCTTTGGACGTAATTTTGTTCAGAGCTCCGAGCCCTTACT	1440
Db	7080	ATAGGTCCCGAAGGCGCTGCTGATCCACTTCTGCTCTC	7123
Qy	1441	ATAGGCTCTGTAACGTTCTGCTCATCTGCACTACGCTTTC	1484
RESULT	4	US-08-641-570-3 STANDARD; DNA; UNC; 1518 BP.	
ID	AC	xxxxxx	
DT	01-JAN-1900		
DE	Sequence 3, Application US/08641570.		
CC	Sequence 3, Application US/08641570		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Durst, Mathias		
CC	APPLICANT: Giesman, Lutz		
CC	TITLE OF INVENTION: A DNA SEQUENCE ENCODING A PAPILLOMAVIRUS		
CC	TITLE OF INVENTION: L1 PROTEIN CAPABLE OF EFFICIENTLY FORMING VIRUS-LIKE		
KE			
CC	TITLE OF INVENTION: PARTICLES		
CC	NUMBER OF SEQUENCES: 6		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP		
CC	STREET: P.O. Box 747		
CC	CITY: Falls Church		
CC	STATE: Virginia		
CC	COUNTRY: USA		
CC	ZIP: 22040-0747		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: Patentin Release #1.0, Version #1.30		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/641,570		
CC	FILING DATE:		
CC	CLASSIFICATION: 435		
CC	PRIOR APPLICATION DATA:		
CC	APPLICATION NUMBER: US 08/092,528		
CC	FILING DATE: 16-JUL-1993		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Svensson, Leonard R.		
CC	REGISTRATION NUMBER: 30330		
CC	REFERENCE/DOCKET NUMBER: 147-133P		
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE: 703-205-8000		
CC	TELEFAX: 703-205-8050		
CC	INFORMATION FOR SEQ ID NO: 3:		
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH: 1518 base pairs		
CC	TYPE: nucleic acid		
CC	STRANDEDNESS: not relevant		
CC	TOPOLOGY: not relevant		
CC	MOLECULE TYPE: DNA (genomic)		
CC	HYPOTHETICAL: NO		
CC	FEATURE:		
CC	NAME/KEY: CDS		
CC	LOCATION: 1..1518		
S0	Sequence 1518 BP; 488 A; 292 C; 285 G; 453 T; 0 other:		
Query Match	34.5%;	Score 526; DB 67; Length 1518;	
Best Local Similarity	69.0%;	Pred. No. 0.00e+00;	
Matches	983; Conservative	0; Mismatches 439; Indels 3; Gaps 2;	
Db	1	ATGTCCTTTGGCTCCAGTAGAGCCACTGCTACTTGGCTTCGTGCCAATATCTAG	60
Qy	1	ATGGCTTTGGCTCCAGTAGAGCCACTGCTACTTGGCTTCGTGCCAATATCTAG	60

1141 ACTATATCTTAAGTCAAGATGTTATGCTCTATATTCATAGATATAGAGATATTTTA 1200
Db 1199 GAGGACTGGAATTTTGGTCTACACCTCCCGGAGGACACTAGAAATACTATAGG 1257
Qy 1201 GAGGATTTGGAACCTTGTGTCCCGCCCGCACTACTAGTTGGTGAATACATATGCT 1260
Db 1258 TTGTACATCCAGCAATTCCTGTCAAAAACATACACCTCCAGCACTAAGAAGAT 1317
Qy 1261 TTGTACATCTCTCTATTCCTGTCAAAAAGATGCTGACACAGCTGAAGATTAAGAT 1320
Db 1318 CCCCCTAAAAATACACTTTTGGAGATTAATTTAAGGAAAGTTTCTGACAGCTTA 1377
Qy 1321 CCCCCTATGATTAAGTTAAGTTTGGAGATGATGATTTAAGGAAAGTTTCTGACCTTA 1380
Db 1378 GATCAGTTCTTTAGGAGCAATTTTACTACAGAGAGATG 1422
Qy 1381 GATCAATATCCCTTGAGAGTAATTTTGGTCAAGCTGATG 1425

RESULT 5
US-08-472-673-1 STANDARD; DNA; UNC; 1517 BP.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 1, Application US/08472673.
CC Sequence 1, Application US/08472673
CC GENERAL INFORMATION:
CC APPLICANT: Lowy, Douglas R.
CC APPLICANT: Kirschner, Reinhard
CC TITLE OF INVENTION: SELF ASSEMBLING RECOMBINANT
CC TITLE OF INVENTION: PAPILLOMAVIRUS CAPSID PROTEINS
CC NUMBER OF SEQUENCES: 6
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: KNOBE, MARTENS, OLSON & BEAR
CC STREET: 620 Newport Center Drive, Sixteenth Floor
CC CITY: Newport Beach
CC STATE: CA
CC COUNTRY: USA
CC ZIP: 92660
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent In Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/472,673
CC FILING DATE: 07-JUN-1995
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US 08/032,869
CC FILING DATE: 16-MAR-1993
CC APPLICATION NUMBER: US 07/941,371
CC FILING DATE: 03-SEP-1992
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kirkpatrick Ph.D., Anita M.
CC REGISTRATION NUMBER: 32,617
CC REFERENCE/DOCKET NUMBER: NIH032.001CPI
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 619-235-8550
CC TELEFAX: 619-235-0176
CC INFORMATION FOR SRO ID NO: 1:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1517 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
CC HYPOHETICAL: NO
CC ANTI-SENSE: NO
CC ORIGINAL SOURCE:
CC ORGANISM: Human papillomavirus
CC STRAIN: HPV16

CC FEATURE:
CC NAME/KEY: CDS
CC LOCATION: 1..1517
CC Sequence 1517 BP; 487 A; 293 C; 284 G; 453 T; 0 other;
SQ
Query Match 34.4%; Score 524; DB 63; Length 1517;
Best Local Similarity 68.9%; Pred. No. 0.00e+00;
Matches 982; Conservative 0; Mismatches 440; Indels 3; Gaps 2;
Db 1 ATGTCTCTTGGCTGCTAGTAGGCGCATGCTCTACTTCCCTGCTGCCAGATATAG 60
Qy 1 ATGGCTTTTGGCGGGCTGTGACATACCGTATACCTTCACCTCTCTGTGGGAGAG 60
Db 61 GTTGTACACGAGATGATATGTTCACAGCACAAGATATATATCAATGACAGAGATCC 120
Qy 61 GTTGTAAATFACTGATGATATGTGACCTGCACAAGATATTTATCAATGCTGACCTCT 120
Db 121 AGACTACTTGCAGTGGACATCCCTATTTTCCATTAATAAAACCTAACAATAAATA 180
Qy 121 AGATTATTAAGTGTGTGATTCATATTTTGGGTCTCTGAGGTGGGCAATTAAGAG 180
Db 181 TTAGTTCTTAAGATACAGATTAATACATACAGGATTTTGAATATCATTTACGACCC 240
Qy 181 GATATTCCTAAGTGTCTGATACATATATAGATATTTCCGGGTGCACTTACGACCA 240
Db 241 AATAGTTTGTCTTCTGACACCTCATTTATATATCCAGATACACAGCGCTGTTGG 300
Qy 241 AATAAATTTGCTTACTGATATATAGTATATATATATATATATATATATATATAT 300
Db 301 GCTGTGATAGTGTAGAGTGTGCTGCTGCTGACAGATTAAGTGTGAGTATAGTGCAT 360
Qy 301 GCTGTGATAGTGTAGAGTGTGCTGCTGCTGACAGATTAAGTGTGAGTATAGTGCAT 360
Db 361 CCTTTTATTAATTAATTTGATGACACAGAAATGCTATGCTTATGACAGAAATGCA 420
Qy 361 CCAATTTTATTAATTAATTTGATGACACAGAAATGCTATGCTTATGCTTATGCT 420
Db 421 GTGATTAATAGAGATGATATATATATATATATATATATATATATATATATATG 480
Qy 421 GAGGAGTGTAGGACATGTCTGTATATATATATATATATATATATATATATG 480
Db 481 TGCAACCACTATATAGGAGCACTGGGGCAAGATCCCATATGTCAGTATG 540
Qy 481 TGTGCCCTGTATTTGGGACACAGGCTTAAGGCACTGCTGTGAATCCGCTCTTA 540
Db 541 AATCCAGTGAATGTCACCATTAAGATTAATAACAAGTATTCAGAGTGTGATATG 600
Qy 541 TCACAGGCGAATGCCCCCTTTAGACTTAAGAACAGATTTTGAAGATGGATATG 600
Db 601 GTTCATAGTGTGCTTGTCTATGACCTTTACTATACATTACAGCTTACAAAAGTAA 660
Qy 601 GTAGATACGATATGCTGACAGCTTTAGTACATGCAAGATACAAATGTGAGAGA 660
Db 661 CCACTGATATTTGATCATCTATTTGCAAAATATCCAGATTAATTAATTAATG 720
Qy 661 CCAATGATATTTGATCATCTATTTGCAAAATATCCAGATTAATTAATTAATG 720
Db 721 CCAATGAGGACATATTTTATTTATTAAGAGGAAACAAATGTTGTAGACATTA 780
Qy 721 CCAATGAGGACATATTTTATTTATTAAGAGGAAACAAATGTTGTAGACATTT 780
Db 781 TTTAATAGCGGCTAGTGTGTGTAATAATGACACAGATTTATATATTAAGGCT 840
Qy 781 TGAATAGGCGAGTACTATGGGTGACACTGTGCTCAATCCCTATATATTAAGG 840
Db 841 GGGCTACAGCAATTTAGCCATTTCAATATTTTCTTACACCTAGAGTCTATAGTT 900
Qy 841 GGTATCGGCTTCACTGAGAGCTGTGTATCTCTCTCCAGAGGCTCTATATGTT 900
Db 901 ACCTGTGATCCCAATATTCATTAACCTTATTTGTTACACAGACACAGGCTACAT 960
Qy 901 ACCTGTGATCCCAATTTTATTAATTAATTAATTTGTTATTAAGGACAGGCTATAC 960

Db	961	AAAGCAATTGTTGGGGTAAACAACAATTTGTACTGTTGTGATACATACAGCAGATCA	1020
Db	961	AATGGTATCTCGCTGGCAATTAATATTTTGTACTGTGGTATGATACACCTGATACC	1020
Db	1021	AATATGATCATATATGCTGTGCATATCTACTTTCAGAAAGCTA--CA-TATAAAAATACTAAC	1077
Db	1021	AATTTAACATATATGCTTTTCTTACACAGTCTCCGTATCCGTGGGCATATGATGCTACCAA	1080
Db	1078	TTTAAGGAGTACCTACGACATGGGGGAGAAATATGATTTACAGTTATATTTTCAACTGTGC	1137
Db	1081	TTTAAGCAGTATAGCAGACATGTTGAAGAAATATGATTTGCACTTATATTTTCAAGTATGT	1140
Db	1138	AAATATACCTTACTACGAGACGTTATGACATATCATCTTATATGATATTCACATATTTTG	1197
Db	1141	ACTATTTACTTAACTATGCGAGATGTTATGTCTTATATTCATGATATAAAGACGATATTTTA	1200
Db	1198	GAGACATGGAATTTTGGCTATACAACTCCGCCCGAGGAGCAGCACTATGAAGATACTATAGG	1257
Db	1201	GAGATGTGGAACCTTTGGTGTTCCTCCCGCCGCAACTACTAGTATTTGGTGGATACATATGCT	1260
Db	1258	TTTGTATACATCCGACGCAATTCCTGTGTCAAAAACATATACACTCCAGCACTATAAGAGAT	1317
Db	1261	TTTGTACAACTGTGTGCTATATACCTGTCAAAAAGGATGCTGACACAGCTGAAGAAATAGAT	1320
Db	1318	CCCCCTTAAAAATATACCTTTTGGGGAATATTTTAAAGGAAAGTTTCTGTGACAGCTCA	1377
Db	1321	CCCTATATATAGTTAAAGTTTGTGGAATGTGGAATTTTAAAGGAAAGTTTCTTGTGACTTA	1380
Db	1378	GATAGTTCCTTTAGAGCCCAATTTTACATACAAAGCAGATG	1422
Db	1381	GATCAATATATCCCTTGACGCTAATATTTTGGTTCAGGCTGATG	1425
RESULT	6		
ID	US-08-475-782-1	STANDARD; DNA; UNC; 1517 BP.	
AC	xxxxxx		
DT	01-JAN-1900		
DE	Sequence 1, Application US/08475782.		
CC	Sequence 1, Application US/08475782		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Lowy, Douglas R.		
CC	APPLICANT: Schiller, John F.		
CC	APPLICANT: Kirnbauer, Reinhard		
CC	TITLE OF INVENTION: SELF-ASSEMBLING RECOMBINANT		
CC	TITLE OF INVENTION: PAPILOMAVIRUS CAPSID PROTEINS		
CC	NUMBER OF SEQUENCES: 6		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: KNOBE, MARTENS, OLSON & BEAR		
CC	STREET: 620 Newport Center Drive, Sixteenth Floor		
CC	CITY: Newport Beach		
CC	STATE: CA		
CC	COUNTRY: USA		
CC	ZIP: 92660		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: PatentIn Release #1.0, Version #1.25		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/475,782		
CC	FILING DATE: 07-JUN-1995		
CC	CLASSIFICATION: 424		
CC	PRIOR APPLICATION DATA:		
CC	APPLICATION NUMBER: US 08/032,869		
CC	FILING DATE: 16-MAR-1993		
CC	APPLICATION NUMBER: US 07/941,371		
CC	FILING DATE: 03-SEP-1992		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Kirkpatrick Ph.D., Anita M.		
CC	REGISTRATION NUMBER: 32,617		
CC	REFERENCE/DOCKET NUMBER: NIH032.001CPI		
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE: 619-235-8550		

CC	TELEFAX: 619-235-0176
CC	INFORMATION FOR SEQ ID NO: 1:
CC	SEQUENCE CHARACTERISTICS:
CC	LENGTH: 1517 base pairs
CC	TYPE: nucleic acid
CC	STRANDEDNESS: single
CC	TOPOLOGY: linear
CC	MOLECULE TYPE: DNA (genomic)
CC	HYPOTHETICAL: NO
CC	ANTI-SENSE: NO
CC	ORGANISM: SOURCE:
CC	ORGANISM: Human papillomavirus
CC	STRAIN: HPV16
CC	FEATURE:
CC	NAME/KEY: CDS
CC	LOCATION: 1..1517
CC	Sequence 1517 bp; 487 A; 293 C; 284 G; 453 T; 0 other;
CC	
CC	Query Match 34.4%; Score 524; DB 63; Length 1517;
CC	Best Local Similarity 68.9%; Pred. No. 0.00e+00;
CC	Matches 98%; Conservative 0; Mismatches 440; Indels 3; Gaps 2;
Dd	1 ATGTCCTTTGGCGCCCTAGAGAGGCCACTGTCTACTTGCTCCTGTGCCAGTATCTAAG 60
Oy	1 ATGGCTTTGGTGGCGGCCCTAGTAGCAATAACCTTAATCCCTCCACCCTCTGTGGCAGA 60
Dd	61 GTTGAACACAGGATGATATATTGTGCACGCAAAACATATATTATCATGCAGAACATCC 120
Oy	61 GTTGAATACTGATGATTAATGTGACTGCGCAAGCATATTTTATCTGTGGCAGCTCT 120
Dd	121 AGACTACTGCAAGTTGACATCCCTATTTTCCATTAATAAAAACCTAACATTAACAATA 180
Oy	121 AGATTATTAAGCTGTGGTAATCCATATTTTAGGGTCCCTGCAGGTGGCAATTAACAG 180
Dd	181 TTAGTTCCTAAGATATACGATTAACATACAGGATTTAGAAATACATTTACCTGACCCC 240
Oy	181 GATATTCCTAAGATTTCTGCATACCAAAATAGATATTTCGGGTGAGTACCTGACCCA 240
Dd	241 AATAAGTTGGTTTTCCTCGACACCTCATTTATATATCCAGATACAGAGCGGCTGGTTGG 300
Oy	241 AATAATTTGGTTTACCTGATATATAGTATTTATATCTGAAACACATGTTAGTGTGG 300
Dd	301 GCCGTGAGGTGTGAGGATAGTGTGTCGACGACCATTTAGGTGTGGCATTTAGTGCCAT 360
Oy	301 GCCGTGCTGGAGTGGGAATTTGGCGGTGTCAGGCTTTAGGTGTGGCCTTAGTGGCAT 360
Dd	361 CCTTTATTAATAATTGATGACACAGAAAAATGCTAGTGTATTGACGACAAATGCAAGT 420
Oy	361 CCATTTTATTAATTAATGATGACACTGAAAGTTCCCCAGCGCTCAATGTTCT 420
Dd	421 GTGGATTAATAGATATGATATGATATGATTAACAACAAACACAATGTGTTAATTTGGT 480
Oy	421 GAGGACGTTAGGGAATGCTGTGTAATTAATTAAGCACAGACAGTATGATTTTGGGC 480
Dd	481 TGCAACACCACTATAGGGGGAACACTGGGGGCAAGGATCCCATTTACCAATGTTGCAGTA 540
Oy	481 TGTGCCCCCTGCTATTTGGGGAACACTGGGCTTAAGGACTGTTTAATGCCGTCCTTTA 540
Dd	541 AATCCAGGTGATGTGCACCATAGAGAGTTAATAACACAGTATTTCAGATGCGATATG 600
Oy	541 TCACAGGCGATATGCCCCCTTTAGAACTTAAGAACAGATTTTGAAGAAGTGGATATG 600
Dd	601 GTTCACTACTGCGTTTGGTGTGCTATGAGCACTTTACTACATTTACAGGCTAACAAAATGAAGTT 660
Oy	601 GTAGTACTGTGTAAGGTGCGCATGCACTTTGTCATTTGCAAGTACTAATGTGAGAGTA 660
Dd	661 CCACAGGATTTTGTACATCTATTGCAAAATATCCAGATTTTATTAANAATGTTGTCAGAA 720
Oy	661 CCATTGGAATTTGTCACTCTATTTGTAATATCTGATTTTATACAAATGTCTGCGAT 720
Dd	721 CCATATGGCGACGCTTATTTTATTTATTAAGAAAGGAACAAATGTTTGTAGACATTTA 780
Oy	721 CTTATGGGGAATCCATATTTTTTTTGGCTTAGAGAGTGGACGCTTTTGGCAGCATTTT 780

QY 541 TCACAGGGGCGATTCGCCCCCTTTAGACCTTAGAACACAGTTTGGAGATGCTGATATG 600
 DB 601 GTTCATACCTGCTTGGTGTCTATGACCTTTACTACATTAAGGCTAACAAAGTGAAGT 660
 QY 601 GTAGATACCTGATATGATGCCATGACCTTTAGATATCAAGATACATTAATGTAGGTA 660
 DB 661 CCACGAGATATTTGACATCTATTTGCAAAATCCAGATATATTAATAATGCTGCAGAA 720
 QY 661 CCATTGGATATTTGACGCTATTTGTAATATCCGATATTTACAAATGCTCGAGAT 720
 DB 721 CCATATGCGACAGCTTATTTTATTTATGACGAGGACAAATGTTTGTAGACATTA 780
 QY 721 CCTATGGGAGATCCATGTTTTCCTTACGACGAGACACTTTTCTGAGCATTTT 780
 DB 781 TTTAATAGGCTGTGCTACTGTTGTGTAATAATGTACAGAGATTTATACATTAAGGCTCT 840
 QY 781 TCGATATAGGCGAGTACTATATGAGTGACACTGTGCTCAATCTTATATTAAGGACAA 840
 DB 841 GGGTCTACTGCAAATTTAGCCAGTCAATTTTTCCTACACCTAGTGTCTATGTT 900
 QY 841 GGTATGCGTCTTCCAGCTGCGAGCTGTGTATCTCCCTCCCAAGTGGCTCTATGTT 900
 DB 901 ACCCTGATGCCCAATATATCAATAACCTTATGTTTACAGACGACAGGCGCAAT 960
 QY 901 ACCCTGATGCCCAATATATCAATAACCTTATGTTTACAGACGACAGGCGCAAT 960
 DB 961 AATGCAATTTGTTGGGGTAACCAACATTTTGTACTGTTGTATGATACACGACAGTACA 1020
 QY 961 AATGCAATTTGTTGGGGTAACCAACATTTTGTACTGTTGTATGATACACGACAGTACA 1020
 DB 1021 AATATGATATTTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1077
 QY 1021 AATATGATATTTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1077
 DB 1078 TTTAAGAGTACCTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1137
 QY 1078 TTTAAGAGTACCTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1137
 DB 1138 AAAATACCTTAAGTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1197
 QY 1138 AAAATACCTTAAGTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1197
 DB 1141 ACTATTAATTAAGTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1200
 QY 1141 ACTATTAATTAAGTACGACATGGGAGGAGATATGATTTAGATTTATTTTCACTGCTG 1200
 DB 1188 GAGGAGTGAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1257
 QY 1188 GAGGAGTGAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1257
 DB 1201 GAGGAGTGAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 QY 1201 GAGGAGTGAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 DB 1258 TTTGATACCTTCCAGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1317
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 DB 1381 GATCAGTTCCTTGGAGCGCAATTTTGGTTCAGGCTGATG 1425
 QY 1381 GATCAGTTCCTTGGAGCGCAATTTTGGTTCAGGCTGATG 1425

CC CORRESPONDENCE ADDRESS:
 CC ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP
 CC STREET: P.O. Box 747
 CC CITY: Falls Church
 CC STATE: Virginia
 CC COUNTRY: USA
 CC ZIP: 22040-0747
 CC COMPUTER READABLE FORM:
 CC MEDIUM TYPE: Floppy disk
 CC COMPUTER: IBM PC compatible
 CC OPERATING SYSTEM: PC-DOS/MS-DOS
 CC SOFTWARE: Patent Release #1.0, Version #1.30
 CC CURRENT APPLICATION DATA:
 CC APPLICATION NUMBER: US/08/641,570
 CC FILING DATE:
 CC CLASSIFICATION: 435
 CC PRIOR APPLICATION DATA:
 CC APPLICATION NUMBER: US 08/092,528
 CC FILING DATE: 16-JUL-1993
 CC ATTORNEY/AGENT INFORMATION:
 CC NAME: Svensson, Leonard R.
 CC REGISTRATION NUMBER: 30330
 CC REFERENCE/DOCKET NUMBER: 147-133P
 CC TELECOMMUNICATION INFORMATION:
 CC TELEPHONE: 703-205-8000
 CC TELEFAX: 703-205-8050
 CC INFORMATION FOR SEQ ID NO: 1:
 CC SEQUENCE CHARACTERISTICS:
 CC LENGTH: 1518 base pairs
 CC TYPE: nucleic acid
 CC STRANDEDNESS: not relevant
 CC TOPOLOGY: not relevant
 CC MOLECULE TYPE: DNA (genomic)
 CC HYPOTHEICAL: NO
 CC ORIGINAL SOURCE:
 CC INDIVIDUAL ISOLATE: HPV16
 CC FEATURE:
 CC NAME/KEY: CDS
 CC LOCATION: 1..1518
 CC SEQUENCE 1518 BP: 488 A; 292 C; 285 G; 453 T; 0 other;
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 Query Match 34.3%; Score 522; DB 67; Length 1518;
 Best Local Similarity 68.8%; Pred. No. 0.006+00;
 Matches 981; Conservative 0; Mismatches 441; Indels 3; Gaps 2;
 DB 1 ATGCTCTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
 QY 1 ATGCTCTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
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 QY 121 AGACTACTTGACAGTGCATCCCTATTTCTTATTAATAAACCTAACAAATA 180
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 QY 361 CATTATTAATAATTAAGTATGACAGTGAAGTTCCATGCCGCTAGCTTAATGTTCT 420


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Qy 481 TGTGCCCCCTGATGTTGGGACACCTGGGCTAAAGGACGCTGTAAATCGGCTCTTA 540
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Qy 541 TCACAGGGGATGCCCCCTTTAGAACTTAAGAACACAGTTTGGAGATGCTATAG 600
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Qy 601 GTAGATGATGATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
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Qy 721 CCTTATGCGGACAGCTTATTTTATTTTACGAGGAAACAAATGTTTGTGACATTT 780
Db 781 TTTAATGAGGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
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Db 1378 GATCAGTTCCTTTAGGACGCAATTTTACTACAGCAGATTG 1422
Qy 1381 GATCAATATCCCTTGACGATTAATTTTGTTCAGGCTGATTG 1425

RESULT 10
ID US-08-472-673-2 STANDARD; DNA; UNC; 1517 BP.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 2, Application US/08472673.
CC Sequence 2, Application US/08472673
CC GENERAL INFORMATION:
CC APPLICANT: Lowy, Douglas R.
CC APPLICANT: Schiller, John T.
CC APPLICANT: Kirnbauer, Reinhard
CC TITLE OF INVENTION: SELF-ASSEMBLING RECOMBINANT
CC TITLE OF INVENTION: PAPILLOMAVIRUS CAPSID PROTEINS
CC NUMBER OF SEQUENCES: 6
CC CORRESPONDENCE ADDRESS:
CC ADDRESS: KNOBBE, MARTENS, OLSON & BEAR
CC STREET: 620 Newport Center Drive, Sixteenth Floor
CC CITY: Newport Beach
CC STATE: CA
CC COUNTRY: USA
CC ZIP: 92660
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/472,673
CC FILING DATE: 07-JUN-1995
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US 08/032,869
CC FILING DATE: 16-MAR-1993
CC APPLICATION NUMBER: US 07/941,371
CC FILING DATE: 03-SEP-1992
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kirkpatrick Ph.D., Anita M.
CC REGISTRATION NUMBER: 32,617
CC REFERENCE/DOCKET NUMBER: NIH032.001CP1
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 619-235-8550
CC TELEFAX: 619-235-0176
CC INFORMATION FOR SEQ ID NO: 2:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1517 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
CC HYPOTHETICAL: NO
CC ANTI-SENSE: NO
CC FEATURE:
CC NAME/KEY: CDS
CC LOCATION: 1..1517
CC Sequence 1517 BP; 487 A; 291 C; 286 G; 453 T; 0 other:

Query Match 33.1%; Score 504; DB 63; Length 1517;
Best Local Similarity 68.2%; Pred. No. 0.00e+00;
Matches 972; Conservative 0; Mismatches 450; Indels 3; Gaps 2;

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Db 1378 GATCAGTTCTCTTAGACGCAATTTTACTACAAAGCAGATTTG 1422
OY 1381 GATCAATATCCCTTGACGTAATTTTGTGTGACGCTGATTTG 1425
RESULT 11
ID US-08-472-678-2 STANDARD: DNA; UNC: 1517 BP.
AC xxxxxx
DT 01-JAN-1990
DE Sequence 2, Application US/08472678.
CC Sequence 2, Application US/08472678
CC GENERAL INFORMATION:
CC APPLICANT: Lowy, Douglas R.
CC APPLICANT: Schiller, John T.
CC APPLICANT: Kirnbauer, Reinhard
CC TITLE OF INVENTION: SELF-ASSEMBLING RECOMBINANT
CC TITLE OF INVENTION: PAPILOMAVIRUS CAPSID PROTEINS
CC NUMBER OF SEQUENCES: 6
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: KNOBE, WARENS, OLSON & BEAR
CC STREET: 620 Newport Center Drive, Sixteenth Floor
CC CITY: Newport Beach
CC STATE: CA
CC COUNTRY: USA
CC ZIP: 92660
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/472,678
CC FILING DATE:
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US/08/032,869A
CC FILING DATE: 16-MAR-1993
CC APPLICATION NUMBER: US 07/941,371
CC FILING DATE: 03-SEP-1992
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kirpatrick Ph.D., Anita M.
CC REGISTRATION NUMBER: 32,617
CC REFERENCE/DOCKET NUMBER: NIH032.001CP1
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 619-235-8550
CC TELEFAX: 619-235-0176
CC INFORMATION FOR SEQ ID NO: 2:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1517 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: DNA (genomic)
CC HYPOHETICAL: NO
CC ANTI-SENSE: NO
CC FEATURE:
CC NAME/KEY: CDS
CC LOCATION: 1..1517
CC Sequence 1517 BP; 487 A; 291 C; 286 G; 453 T; 0 other:
Query Match 33.1%; Score 504; DB 63; Length 1517;
Best Local Similarity 68.2%; Pred. No. 0.00e+00;

Sequence 7904 BP: 2601 A: 1377 C: 1510 G: 2416 T: 0 other;
Query Match 32.9%; Score 502; DB 47; Length 7904;
Best Local Similarity 68.18; Pred. No. 0.00e+00;
Matches 971; Conservative 0; Mismatches 451; Indels 3; Gaps 2;
Db 5637 ATGTCTTTTGGCTGCTAGTGGCCACTGTCTACTTGGCTTCCTGCTCCAGTATCTAG 5696
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OY 901 ACCTGATGGCCAAATTCATTAATTAACCTTATGTTAGCAAGAGAGGCGCAAT 960
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Db 7014 GATCAGTTTCTTAGAGCAAAATTTTACTTACACAGAGATTTG 7058
OY 1381 GATCAATATCCCTTGGAGCTAAATTTTGGTTCAGGCTGATG 1425
RESULT 13
ID US-08-316-239B-1 STANDARD; DNA; UNC; 7904 BP.
AC xxxxxx
DT 01-JAN-1900
DE Sequence 1, Application US/08316239B.
CC Sequence 1, Application US/08316239B
CC GENERAL INFORMATION:
CC APPLICANT: Wheeler, Colette M.
CC APPLICANT: Palmer, Cheryl A.
CC TITLE OF INVENTION: Methods and a Diagnostic Aid for
CC TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated
CC with an
CC TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia an
CC d
CC TITLE OF INVENTION: Cervical Cancer
CC NUMBER OF SEQUENCES: 4
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Jagtland & Associates
CC STREET: 6126 Rocky Way Court
CC CITY: Centreville
CC STATE: VA
CC COUNTRY: USA
CC ZIP: 20120-3400
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.30
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/316,239B
CC FILING DATE: 30-SEP-1994
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Jagtland, Ajay A.
CC REGISTRATION NUMBER: 35,205
CC REFERENCE/DOCKET NUMBER: UNNE-0001
CC TELEPHONE: (703) 817-8453
CC TELEFAX: (703) 803-9387
CC INFORMATION FOR SEQ ID NO: 1:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 7904 base pairs
CC TYPE: nucleic acid

CC STRANDEDNESS: double
CC TOPOLOGY: circular
CC MOLECULE TYPE: DNA (genomic)
CC
CC HYPOTHETICAL: NO
SQ Sequence 7904 bp; 2601 A; 1377 C; 1509 G; 2417 T; 0 other

Query Match	Score	DB	Length
32.98;	502;	47;	7904;

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Best Local Similarity: 08.18;   Fied. NO: 0.00e+00;
Matches 971; Conservative 0; Mismatches 451; Indels 3; Gaps 2;

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D	5637	ATGCTGTTGGGCGCTAGTATGAGGCGACAGCTGCTACTTGGCTCCCTGCTCCAGATATCTAG	5638
O	1	ATGGCTTTGGGGCGGCGCTAGTATGCAATATCCGATATACCTTCCACCTCTCTGTGGCAAGA	60
D	5697	GTTTGTAAAGCAGGATGCAATATGTGTGACAGGACAAACATATATATCATATCAGAGAACTCC	5756
O	61	GTTGTAAATACTATGATTTATGTGACTCGGACAGACATATTTTATCATCTGTGGACGCTT	120
D	5757	AGACTACTGCAGTGGACATCCCTATTTTCTATTAAAAAACCTAACATATACAAAAATA	5816
O	121	AGATTATTAACCTGTGGTATCCATATTTTAGGGTCTCGCAGGTGGTGGCAATATACAG	180
D	5817	TTAGTCTCTAAGATATACAGGATATACAAATACAGGATTTTATAGATATACATTACTACACCC	5876
O	181	GATATTCCTTAAGGTTCTGTGATACCAATATAGATATTTCCGGGTGGAGTATACCTACCA	240
D	5877	AATAGCTTGGTTTCCCTGCACACCTCATTTTATATCCAGATATACAGAGGGCTGGTTGG	5938
O	241	AATATAATTTGGTTTACTGTATATATAGTATTTATATCTCGAAACACACAGTTTATGTGG	300
D	5937	GCCGTGTAGGTGTGAGGATAGGTCTGTGTCAGCCATTATAGTGTGGGCAATTAGTGGCAT	5998
O	301	GCCGTGCTGAGAGGAAATTTGGCCGGGACACCTTTAGTGTGGCCTTAGTGGGCAAT	360
D	5997	CCTTATTAATTAATATGATGTGACACAGAAATAGCTAGTGTCTTATGACAGCAATCAGCT	6058
O	361	CCATTATTAATTAATATAGATATGACACTGAAAGTTCCCATGCGCGTACGCTATATGTTCT	420
D	6057	GTTGATATATAGAGATATATATCTATGAGATTACAAACAAACAAATGCTTATATGTT	6116
O	421	GAGAGCTTAGGAGCAATGTGTCTGTATATATACACAGACACACAGTATATGTTTGGGC	480
D	6117	TGCAAAACCACTTATAGGGGAACACTGGGGCAAGATGCCCATGTACCAATGTTGCAGTA	6176
O	481	TGTGCCCTGCTATTGGGGAACTAGGGGCTAAAGGACAGTGTGTAATACGGGCTCTTAA	540
D	6177	AATCCAGATATGTCCACCATTAGATTATATTAACACAGTATATTCAGATGGTATATG	6238
O	541	TCACAGGGGCAATGGCCCCCTTTTAGAATTTAAMACACAGTTTGGAAATGTGATATAG	600
D	6237	GTTCAATCTGAGCTTGGTGTCTATGGAATTACTACATTAACAGGCTAACAAAAGTAAT	6296
O	601	GTATATCTGATATGTTGCCATGAGCTTTATAGTACATTGCCAAGATATCTAAATGTATAGTA	660
D	6297	CCACTGGATATTTGTATACATCTATTTCCAAATATCCAGATTTATATTAATATGGTGTACAGA	6356
O	661	CCATTGGATATTTGTGCTAGCTATTTGTAATAATCAGTATATTTACAAATGTCCACAT	720
D	6357	CCATATGGCAGCACTTATTTTATTTATTCAGAAGGAAACAAATGTTGTTGACATTTA	6416
O	721	CCATTATGGGATATTCAGATTTTCTTTTCTTACGACGAGACACTTGTGCTAGGCATTTT	780
D	6417	TTTAAATAGGCGTGTACTGTGTGTAAGAAATGTACACAGAGATTTTATACATTAAGCGCT	6476
O	781	TGGAATATGGCAGGTACTATAGGTGTACACGTGTCCCAATCCTTATATATTTAAAGGACA	840
D	6477	GGGTCTACTGCCAATTTTATAGCCAGTTCAAATATTTTCTACACACTAGTGGTCTATGGTT	6538
O	841	GGATAGCGTCTACCTCGCAGCTGTGTATTTCTCTCCCAAGTGGCTCTATTTGTT	900
D	6537	ACCTCTATATGCCAAATATTCATTAACCTTATTTGTTTACAAACGACACAGGCGACAAAT	6596
O	901	ACCTCTATCTACCGATGTTTAAATTAACCATATTTGTTTACATTAAGGACACAGGCTATAC	960

Db	6537	AATGCACTTTGTTGGGGTAACCAACTATTTGTTACTGTTGTTGATACATACACGCACTACA	6556
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Db	6657	AATATGCAATATATGCTGGTCATATCTACTGTGGAAGACA--CA-TATATAAATCTATAC	6713
Qy	1021	AATTTACATATATGTCTTTTACACAGCTCTCTGTACTCTGGGCAATATGATGCTACAA	1080
Db	6714	TTTAAGGAGTACCTACGACATGGGGAGATATGATTTACTAGTTTATTTTCAACTGTGC	6773
Qy	1081	TTTAAGCAGTATACACAGACATGTTGAAGATATGATTTGCACTTATTTTCACTTAGT	1140
Db	6774	AAATTAACCTTAATCTGACAGACGTTATGACATACATACATCTTATGATATCCACTTTTGG	6833
Qy	1141	ACTATTACTTTTAATCTGACAGATGTTATGTCTATATTTCAATAGATATAAAGCAGTATTTTA	1200
Db	6834	GAGGACGTGAATTTTGGCTGTACAACTCTCCCGGAGGAGCACACTGTGAAGATPACTATAG	6893
Qy	1201	GAGGATTTGGAACCTTTGGTGTCTTCCCGCCGCACTACATGTTTGGTGTGATACATAGCT	1260
Db	6894	TTTGTAACCCAGGCAATTTGCTGTCAAAAAACATACCTCTCAGACCTATAAGAAAGATGAT	6953
Qy	1261	TTTGCAATCTGTGTCTATTACTCTGTCAAAAGAGATGTGCACACAGCTGAAGAAATAGAGT	1320
Db	6954	CCCCCTAAAAAATCACTCTTTTGGGAAGTAAATTTTAAGAAAAAGTTTCTGCAAGCTTA	7013
Qy	1321	CCCTATGATTAAGTTAAAGTTTGGAAATGTGGATTTAAAGAAAAAGTTTCTTGTGCACTTA	1380
Db	7014	GATCAGTTTCCCTTGAAGCCCAATTTTACTACAGCAGGATTTG	7058
Qy	1381	GATCAATATCCCTTGACCTAAATTTTGGTTCAAGGCTGAGATTG	1425
RESULT	14		
ID	US-08-410-005-1	STANDARD; DNA; UNC; 7904	BP.
AC	xxxxxx		
DT	01-JAN-1900		
DE	Sequence 1, Application US/08410005.		
CC	Sequence 1, Application US/08410005.		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Hampel, Arnold		
CC	APPLICANT: DiPaolo, Joseph		
CC	APPLICANT: Siewkowski, Andrew M.		
CC	APPLICANT: Galasinski, Scott C.		
CC	TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS INHIBITION BY A		
CC	TITLE OF INVENTION: HAIRPIN RIBOZYME		
CC	NUMBER OF SEQUENCES: 11		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: Reising, Echington, Barnard, Perry & Milton		
CC	STREET: P.O. Box 4590		
CC	CITY: Troy		
CC	STATE: MI		
CC	COUNTRY: USA		
CC	ZIP: 48099-9998		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: PatentIn Release #1.0, Version #1.25		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/410,005		
CC	FILING DATE: 21-MAR-1995		
CC	CLASSIFICATION: 435		
CC	PRIOR APPLICATION DATA:		
CC	APPLICATION NUMBER: 08/242,665		
CC	FILING DATE: 13-MAY-1994		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Kohn, Kenneth I.		
CC	REGISTRATION NUMBER: 30,955		
CC	REFERENCE/DOCKET NUMBER: P-301 (NTU)		
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE: (810) 689-3500		

CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kohn, Kenneth I.
CC REGISTRATION NUMBER: 30,955
CC REFERENCE/DOCKET NUMBER: P-301 (NIU)
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (810) 689-3500
CC TELEFAX: (810) 689-4071
CC INFORMATION FOR SEQ ID NO: 1:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 7904 base pairs
CC TYPE: nucleic acid
CC STRANDEDNESS: double
CC TOPOLOGY: circular
CC MOLECULE TYPE: DNA (genomic)
CC HYPOTHETICAL: NO
CC ANTI-SENSE: NO
CC ORIGINAL SOURCE:
CC ORGANISM: Human papillomavirus
CC STRAIN: HPV16
CC Sequence 7904 BP; 2601 A; 1377 C; 1509 G; 2417 T; 0 other:

Query Match 32.9%; Score 502; DB 40; Length 7904;
Best Local Similarity 68.1%; Pred. No. 0.00e+00;
Matches 971; Conservative 0; Mismatches 451; Indels 3; Gaps 2;

Db 5637 ATGTCTCTTGGCTGCCCTGAGGCGCACTGCTACTGCTCCCTGCTCCAGATATCTAAG 5696
Qy 1 ATGCGTCTTGGCGGCTGAGCAATACCGTATACCTTCCTCTCTGCGGCAAGA 60
Db 5697 GTGTAGACGCGATGATATGTGTGCGACGCAAAACATATATATCATGTGAGAACATCC 5756
Qy 61 GTTGTAAATCTATGATGTTATGTGACTCGCACAAGCATATTTATCATGCTGAGACTCT 120
Db 5757 AGACTACTGTCAGTGTGACATCCCTATTTTCTATTTAAAAAACCTTAACATTAACAATA 5816
Qy 121 AGATTTATTAAGCTGTGGTATCCATATTTTAAAGGTTCTGTCAGAGTGGTGGCAATTAACAG 180
Db 5817 TTAGTCTCAATATACAGATTAACATTAACAGGATATTGAATATCACTTACCTGACCCC 5876
Qy 181 GATATTCCTAAGGTTTCTGATACCATATATAGATTTGCGGTGCGATTACCTGACCCCA 240
Db 5877 AATAAGTTGGTTTCTGACACCTCATTTTATATCATCATACACAGCGGCTGTGG 5936
Qy 241 AATAAATTTGTTTACCTGATTAATAGATTTATATCTGAACACACAGCTTAATGTGG 300
Db 5937 GCCGTGTAGAGTGTGAGTAGTCTGCTCAGCCATTAAGTGTGGCATTAAGGCCAT 5996
Qy 301 GCTGTGCTGAGAGTGGAAATTTGGCCGTGTCAGCCTTTAGGTGTGGCTTAAGGGCAT 360
Db 5997 CCTTTATTAATTAATTTGATGACACAGAAATGCTAGTCTTATGACGCAAAATGCAAGT 6056
Qy 361 CCATTTTATTAATTAATTAATGACACTGAAAGTTCCATGCCCTACGCTTAATGTTCT 420
Db 6057 GTGGATATATGAGAATGTATATCTATGATTAACAACAACAATGCTTATATGTGT 6116
Qy 421 GAGGAGCTTAGGACATGCTGTAGATTATTAAGACAGACAGATATATTTTGGGC 480
Db 6117 TGCAAACCACTATAGGAGAACCTGGGCAAAAGATCCCATGTATACCAATGTTGCAGTA 6176
Qy 481 TGTGCCCTGCTATTTGGGGAACACTGGGCTAAAGGCACCTGCTTAATGCGCGCTTTA 540
Db 6177 AATCCAGGTGATTTGCCACATTAGAGTATATAAACACAGTTATTCAGAGTGTGATATG 6236
Qy 541 TCACAGGGCGATTTGCCCTTTAGAACTTAAGAACACAGTTTGAAGATGGTATATG 600
Db 6237 GTTCATACCTGGCTTTGGTGTATGAGACTTTACTATTAAGGCTAACAAAGTGAAGT 6286
Qy 601 GTAGATACCTGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 6297 CCACTGATATTTGATCATATTTGCAAAATATCCAGATATATTAATAATGTTGTGAGAA 6356
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Db 6357 CCATATGGCGACAGCTTATTTTATTTACGAAGGAAACAAATGTTGTAGACATTTA 6416
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Db 6417 TTTAAATAGGGCTGATCTGTGGTGAATAATGTCACAGAGATTTATACATTAAGGCTCT 6476
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Qy 841 GGTATCGTGCTTACACTGCGACCTGTGTATTTCCCTCTCCCAAGTGGCTCTATGTT 900
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Qy 901 ACCTCTGACTCCCAAGTTGTTAATAACCATATGTTGATTAAGGCAAGGGTCACTAAC 960
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Qy 961 AATGATATCTGCTGCGATATATCAATTTATTTGTTACTGTGTAGATACCACTCTATACC 1020
Db 6657 AATATGTCATTTATGCTGCCATATCTACTTCAGAACTA--CA-TATAAATACTAAC 6713
Qy 1021 AATTTAACAATATGTGCTTCTACAGAGTCTCCGTACCTGGGCAATATGATGCTACCAA 1080
Db 6714 TTTAAGAGTACCTACGACATGCGGAGAAATATGATTTACAGTTTATTTTCACTGTGC 6773
Qy 1081 TTTAAGCAGATATGACAGACATGTTGAAGAAATATGATTTGCGAGTTATTTTTCAGTATGT 1140
Db 6774 AATAATACCTTACTACGAGCGTTATGACATATACATATCTATGTAATCCACTATTTG 6833
Qy 1141 ACTATTAATCTTAATCTGACAGTGTATGTCTATATTAATGATATGATATGACATATTTTA 1200
Db 6834 GAGGACTGGAATTTTGTCTACACCTCCCGCAGAGGCACTAGAAATATCTATATAG 6893
Qy 1201 GAGGATTTGGAACCTTGTGTGCTCCCGCCCGCAACTAGATTTGTTGATATCATATGCT 1260
Db 6894 TTTGTAAACCCAGCAATGCTGTGTCAAAAACATACACTTCACACCTTAAGAAGATGAT 6953
Qy 1261 TTTGTCAATCTGTTCTATTTACTCTCAAAAAGATGCTGACACCACTGMAAATAAGAT 1320
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Qy 1321 CCTATGATATGATTAAGTTTGGAAATGTGATTTAAGGAAAGTTTCTTGTGACTTA 1380
Db 7014 GATCAGTTTCTTTAGGAGCAAAATTTTACTTACAAAGAGATTTG 7058
Qy 1381 GATCAATATCCCTTGGAGCTAATTTTGTGTTGAGGCTGATTTG 1425

Search completed: Wed Sep 24 00:28:26 1997
Job time : 1354 secs.

MORSE
(TM)

Release 2.1D John F. Collins, Biocomputing Research Unit.
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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Tue Sep 23 15:20:17 1997; MasPar time 6.15 Seconds

Tabular output not generated. 339.244 Million cell updates/sec

Title: >US-08-409-122-2

Description: (1-507) from US08409122.pep

Sequence: 1 MALMRPSDNTVYLPFPSPVAR.....APSATISSKPAKRVVRARK 507

Scoring table: PAM 150

Gap 11

Searched: 45564 seqs, 4117656 residues

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

a-issued
1:51:2.52 3:53 4:54 5:55 6:56 7: PCT90 8: PCT91 9: PCT92
10: PCT93 11: PCT94 12: PCT95 13: PCT96

Statistics: Mean 33.493; Variance 150.658; scale 0.222

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description	Pred. No.
1	161	4.3	20	6	US-07-678-	Sequence 23, Applicati	9.65e+05
2	151	4.1	20	6	US-07-678-	Sequence 9, Applicatio	5.97e+04
3	137	3.7	20	6	US-07-678-	Sequence 27, Applicati	7.33e+03
4	136	3.7	20	6	US-07-678-	Sequence 24, Applicati	8.73e+03
5	134	3.6	20	6	US-07-678-	Sequence 8, Applicatio	1.25e+02
6	130	3.5	20	6	US-07-678-	Sequence 17, Applicati	2.51e+02
7	130	3.5	20	6	US-07-678-	Sequence 28, Applicati	2.51e+02
8	129	3.5	20	6	US-07-678-	Sequence 13, Applicati	2.99e+02
9	127	3.4	20	6	US-07-678-	Sequence 7, Applicatio	4.24e+02
10	126	3.4	20	6	US-07-678-	Sequence 18, Applicati	5.04e+02
11	124	3.3	20	6	US-07-678-	Sequence 33, Applicati	7.12e+02
12	123	3.3	20	6	US-07-678-	Sequence 19, Applicati	8.46e+02
13	119	3.2	20	6	US-07-678-	Sequence 4, Applicatio	1.68e+01
14	115	3.1	20	6	US-07-678-	Sequence 10, Applicati	3.31e+01
15	113	3.0	20	6	US-07-678-	Sequence 15, Applicati	4.64e+01
16	107	2.9	20	6	US-07-678-	Sequence 29, Applicati	1.26e+00
17	107	2.9	20	6	US-07-678-	Sequence 22, Applicati	1.26e+00
18	106	2.8	20	6	US-07-678-	Sequence 16, Applicati	1.49e+00
19	104	2.8	20	6	US-07-678-	Sequence 5, Applicatio	2.06e+00
20	104	2.8	20	6	US-07-678-	Sequence 32, Applicati	2.06e+00
21	103	2.8	20	6	US-07-678-	Sequence 20, Applicati	2.43e+00
22	102	2.7	20	6	US-07-678-	Sequence 3, Applicatio	2.86e+00

RESULT	ID	Sequence	Standard	PRT	20 AA
1	US-07-678-974D-23	Sequence 23, Application US/07678974D.			
AC	xxxxxx				
DT	01-JAN-1900				
XX					
CC	Sequence 23, Application US/07678974D				
CC	Patent No. 5629146				
CC	GENERAL INFORMATION:				
CC	APPLICANT: DILLNER, JOAKIM				
CC	APPLICANT: DILLNER, LENA				
CC	TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS				
CC	NUMBER OF SEQUENCES: 67				
CC	CORRESPONDENCE ADDRESSES:				
CC	ADDRESSEE: BERMAN & AISENBERG				
CC	STREET: 1730 RHODE ISLAND AVENUE, N.W.,				
CC	CITY: WASHINGTON				
CC	STATE: D.C.				
CC	COUNTRY: U.S.A.				
CC	ZIP: 20036-3186				
CC	COMPUTER READABLE FORM:				
CC	MEDIUM TYPE: Floppy disk				
CC	COMPUTER: IBM PC compatible				
CC	OPERATING SYSTEM: PC-DOS/MS-DOS				
CC	SOFTWARE: Patentin Release #1.0, Version #1.25				
CC	CURRENT APPLICATION DATA:				
CC	APPLICATION NUMBER: US/07/678,974D				
CC	FILING DATE: 25-JUN-1991				
CC	CLASSIFICATION: 435				
CC	ATTORNEY/AGENT INFORMATION:				
CC	NAME: AISENBERG, Irwin M.				
CC	REGISTRATION NUMBER: 19,007				
CC	REFERENCE/DOCKET NUMBER: SG19171				
CC	TELECOMMUNICATION INFORMATION:				
CC	TELEPHONE: 202-293-1404				
CC	TELEFAX: 202-872-0493				
CC	TELEX: 440 069 AIS UI				
CC	INFORMATION FOR SEQ ID NO: 23:				
CC	SEQUENCE CHARACTERISTICS:				
CC	LENGTH: 20 amino acids				
CC	TYPE: amino acid				
CC	TOPOLOGY: linear				

SQ SEQUENCE 20 AA; 2446 MW; 1749 CN;
Query Match 4.3%; Score 161; DB 6; Length 20;
Best Local Similarity 85.0%; Pred. No. 9.65e-05;
Matches 17; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
Db 1 IENKPYLORAGHNNICM 20
:|||||:|||||:
QY 306 IENKPYLHKAQHNHCICM 325

RESULT 2 STANDARD; PRT; 20 AA.
ID US-07-678-974D-9
XX xxxxxx
AC
DT 01-JAN-1900
DE Sequence 9, Application US/07678974D.
CC Sequence 9, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 9:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2124 MW; 2356 CN;

Query Match 4.1%; Score 151; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 5.97e-04;
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 1 ORLVWACVGVGRGCP1V 20
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QY 96 ORLVWACAGVEIGRGP1V 115

RESULT 3 STANDARD; PRT; 20 AA.
ID US-07-678-974D-27
XX xxxxxx
AC
DT
CC

DT 01-JAN-1900
XX
DE Sequence 27, Application US/07678974D.
XX Sequence 27, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patent Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 27:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2370 MW; 2153 CN;

Query Match 3.7%; Score 137; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 7.33e-03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db 1 HGEYDLPFIOLCKITLTA 20
:|||||:|||||:
QY 367 HGEYDLPFIOLCKITLTA 386

RESULT 4 STANDARD; PRT; 20 AA.
ID US-07-678-974D-24
XX xxxxxx
AC
DT 01-JAN-1900
DE Sequence 24, Application US/07678974D.
XX Sequence 24, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC

CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 24:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC SEQUENCE 20 AA; 2211 MW; 2780 CN;
SQ

Query Match 3.7%; Score 136; DB 6; Length 20;
Best Local Similarity 95.0%; Pred. No. 8,75e-03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Db 1 NGICGNQLEFVTVVDTTRST 20
QY 321 NGICWNQLEFVTVVDTTRST 340

RESULT 5
ID US-07-678-974D-8 STANDARD; PRT; 20 AA.
XX xxxxxx
AC
AC
DT 01-JAN-1900
XX
DE Sequence 8, Application US/07678974D.
XX
CC Sequence 8, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 17:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC SEQUENCE 20 AA; 2302 MW; 2493 CN;
SQ

Query Match 3.5%; Score 130; DB 6; Length 20;
Best Local Similarity 84.2%; Pred. No. 2,51e-02;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Db 2 KSEVPIDICTSICKYPDYI 20

CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 8:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC SEQUENCE 20 AA; 2433 MW; 2528 CN;
SQ

Query Match 3.6%; Score 134; DB 6; Length 20;
Best Local Similarity 80.0%; Pred. No. 1,25e-02;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Db 1 NKEGPDTSFYNDPQRLYW 20
QY 81 NKEGPDNSIYNPEQRLYW 100

RESULT 6
ID US-07-678-974D-17 STANDARD; PRT; 20 AA.
XX xxxxxx
AC
AC
DT 01-JAN-1900
XX
DE Sequence 17, Application US/07678974D.
XX
CC Sequence 17, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 17:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC SEQUENCE 20 AA; 2302 MW; 2493 CN;
SQ

Query Match 3.5%; Score 130; DB 6; Length 20;
Best Local Similarity 84.2%; Pred. No. 2,51e-02;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Db 2 KSEVPIDICTSICKYPDYI 20

CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELETYPE: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 7:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2392 MW; 2209 CN;

Query Match 3.4%; Score 127; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 4.24e-02;
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Db 1 SGLQYRVFRHLDPNKGFG 20
| : ||||| : ||||| :
QY 66 SAYQYRVFRVQLDPNKGFL 85

RESULT 10
ID US-07-678-974D-18 STANDARD; PRT; 20 AA.
XX xxxxxx
DT 01-JAN-1900
DE Sequence 18, Application US/07678974D.
XX Sequence 18, Application US/07678974D.
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESSES:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELETYPE: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 18:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids

CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2448 MW; 2764 CN;

Query Match 3.4%; Score 126; DB 6; Length 20;
Best Local Similarity 65.0%; Pred. No. 5.04e-02;
Matches 13; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Db 1 YPDYIKMSEPYGDSLEFFYL 20
||||| : : ||||| : ||||| :
QY 231 YPDYIKMSADPYGDSMFCL 250

RESULT 11
ID US-07-678-974D-33 STANDARD; PRT; 20 AA.
XX xxxxxx
DT 01-JAN-1900
DE Sequence 33, Application US/07678974D.
XX Sequence 33, Application US/07678974D.
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESSES:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELETYPE: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 33:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2218 MW; 1900 CN;

Query Match 3.3%; Score 124; DB 6; Length 20;
Best Local Similarity 80.0%; Pred. No. 7.12e-02;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Db 1 SADLDQFPLGRKFLQAGIR 20
| ||||| : ||||| : ||||| :
QY 457 SLDLDQFPLGRKFLVQAGIR 476

RESULT 12
ID US-07-678-974D-19 STANDARD; PRT; 20 AA.
XX

AC xxxxxx
XX
DT 01-JAN-1900
DE Sequence 19, Application US/07678974D.
XX
CC Sequence 19, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 19:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC SEQUENCE 20 AA; 2601 MW; 1679 CN;
SQ
Query Match 3.3%; Score 123; DB 6; Length 20;
Best Local Similarity 70.0%; Pred. No. 8.46e-02;
Matches 14; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
Db 1 LFFYLRRQMFVYRHLFNRRAG 20
QY 246 MFQCLRRQOLFARHFWNRAG 265
RESULT 13
ID US-07-678-974D-4 STANDARD; PRT; 20 AA.
XX
AC xxxxxx
XX
DT 01-JAN-1900
DE Sequence 4, Application US/07678974D.
XX
CC Sequence 4, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG

CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
SQ
SEQUENCE 20 AA; 2246 MW; 2412 CN;
SQ
Query Match 3.2%; Score 119; DB 6; Length 20;
Best Local Similarity 70.0%; Pred. No. 1.58e-01;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
Db 1 VVSTDEYVARTNITYHAGTS 20
QY 21 VVNTDDYVTRTSIFYHAGSS 40
RESULT 14
ID US-07-678-974D-10 STANDARD; PRT; 20 AA.
XX
AC xxxxxx
XX
DT 01-JAN-1900
DE Sequence 10, Application US/07678974D.
XX
CC Sequence 10, Application US/07678974D
CC Patent No. 5629146
CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435
CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.

CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 10:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2103 MW; 2050 CN;

Query Match 3.1%; Score 115; DB 6; length 20;
Best Local Similarity 85.0%; Pred. No. 3.31e-01;
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

DB 1 OPLGVGIGSHPLNKLDDTE 20
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QY 111 OPLGVGIGSHPFYRKDDTE 130

RESULT 15
ID US-07-678-974D-15 STANDARD; PRT; 20 AA.
XX xxxxxx
DT 01-JAN-1900
XX Sequence 15, Application US/07678974D.
XX Patent No. 5629146

CC GENERAL INFORMATION:
CC APPLICANT: DILLNER, JOAKIM
CC APPLICANT: DILLNER, LENA
CC TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
CC TITLE OF INVENTION:
CC NUMBER OF SEQUENCES: 67
CC CORRESPONDENCE ADDRESSES:
CC ADDRESSEE: BERMAN & AISENBERG
CC STREET: 1730 RHODE ISLAND AVENUE, N.W.,
CC CITY: WASHINGTON
CC STATE: D.C.
CC COUNTRY: U.S.A.
CC ZIP: 20036-3186

CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/07/678,974D
CC FILING DATE: 25-JUN-1991
CC CLASSIFICATION: 435

CC ATTORNEY/AGENT INFORMATION:
CC NAME: AISENBERG, Irwin M.
CC REGISTRATION NUMBER: 19,007
CC REFERENCE/DOCKET NUMBER: SG19171
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-293-1404
CC TELEFAX: 202-872-0493
CC TELEEX: 440 069 AIS UI
CC INFORMATION FOR SEQ ID NO: 15:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 20 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 20 AA; 2196 MW; 2338 CN;

Query Match 3.0%; Score 113; DB 6; length 20;
Best Local Similarity 75.0%; Pred. No. 4.64e-01;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

DB 1 PPLELINTYIODGDVYHGF 20
|||||:||||:|||||
QY 186 PPLELKNITVLEDGDVYDTGY 205

Search completed: Tue Sep 23 15:20:52 1997
Job time : 35 secs.

MORSE
(TM)

Release 2.1D John F. Collins, Biocomputing Research Unit.
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Distribution rights by IntelliGenetics, Inc.

MPSrch_pp protein - protein database search, using Smith-Waterman algorithm
Run on: Tue Sep 23 15:21:11 1997; MasPar time 31.81 Seconds
Tabular output not generated. 355.718 Million cell updates/sec

Title: >US-08-409-122-2
Description: (1-507) from US08409122.pep
Perfect Score: 3721

Sequence: 1 MALMRPSDNTVYLPPEPSVAR.....APSATTSSKPAKRVVRARK 507

Scoring table:
PAM 150
Gap 11

Searched: 221846 seqs, 22315439 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database:

a-pending
1:PCN91 2:PCY92 3:PCY93 4:PCY94 5:PCY95 6:PCY96 7:PCY97
8:073 9:076 10:077 11:077 12:078 13:078 14:079
15:079 16:080 17:080 18:080 19:080 20:080 21:080
22:080 23:080 24:080 25:080 26:080 27:081 28:081
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43:082 44:082 45:082 46:082 47:082 48:082 49:082
50:083 51:083 52:083 53:083 54:083 55:083 56:083
57:084 58:084 59:084 60:084 61:084 62:084 63:084
64:084 65:084 66:084 67:084 68:084 69:084 70:084
71:NEWP 72:NEWU 73:NEWU8

Statistics: Mean 34.713; Variance 146.689; scale 0.237

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description	Pred. No.
1	3721	100.0	507	56	US-08-409-122-2	0.00e+00
2	3721	100.0	507	56	US-08-409-122-2	0.00e+00
3	2616	70.3	505	67	US-08-641-Sequence 2, Applicatio	5.53e-248
4	2611	70.2	505	67	US-08-641-Sequence 2, Applicatio	1.73e-247
5	2547	68.4	532	73	US-08-737-Sequence 1, Applicatio	6.96e-183
6	1974	53.1	508	68	US-08-724-Sequence 2, Applicatio	1.17e-171
7	1863	50.1	503	68	US-08-724-Sequence 2, Applicatio	1.04e-27
8	417	11.2	93	40	US-08-247-Sequence 14, Applicati	5.43e-04
9	157	4.2	37	40	US-08-247-Sequence 14, Applicati	2.38e-02
10	137	3.7	21	14	US-07-949-Sequence 67, Applicati	2.38e-02
11	137	3.7	21	14	US-07-949-Sequence 67, Applicati	2.38e-02
12	118	3.2	22	40	US-08-247-Sequence 15, Applicati	7.60e-01
13	117	3.1	15	34	US-08-185-Sequence 40, Applicati	9.08e-01

RESULT	1	STANDARD:	PRT:	507	AA.
ID	US-08-409-122-2				
AC	xxxxxx				
DT	01-JAN-1900				
XX	Sequence 2, Application US/08409122.				
DE	Sequence 2, Application US/08409122.				
XX	Sequence 2, Application US/08409122				
CC	GENERAL INFORMATION:				
CC	APPLICANT: JOYCE, JAMES G.				
CC	APPLICANT: GEORGE, HUGH A.				
CC	APPLICANT: HOFMANN, KATHRYN J.				
CC	APPLICANT: JANSEN, KATHRYN U.				
CC	APPLICANT: NEPPER, MICHAEL P.				
CC	TITLE OF INVENTION: DNA ENCODING HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE				
CC	NUMBER OF SEQUENCES: 16				
CC	CORRESPONDENCE ADDRESS:				
CC	ADDRESSEE: CHRISTINE E. CARTY - MERCK & CO., INC.				
CC	STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000				
CC	CITY: RAHWAY				
CC	STATE: NJ				
CC	COUNTRY: US				
CC	ZIP: 07065-0907				
CC	COMPUTER READABLE FORM:				
CC	MEDIUM TYPE: Diskette				
CC	COMPUTER: IBM Compatible				
CC	OPERATING SYSTEM: DOS				
CC	SOFTWARE: FASTEST Version 1.5				
CC	CURRENT APPLICATION DATA:				
CC	APPLICATION NUMBER: US/08/409,122				
CC	FILING DATE:				
CC	CLASSIFICATION: 435				
CC	PRIOR APPLICATION DATA:				
CC	APPLICATION NUMBER: 08/408,669				
CC	FILING DATE: 22-MAR-1995				

ALIGNMENTS

14	113	3.0	15	34	US-08-185-Sequence 34, Applicati	1.84e+00
15	112	3.0	15	34	US-08-185-Sequence 13, Applicati	2.19e+00
16	107	2.9	117	61	US-08-456-Sequence 20, Applicati	5.23e+00
17	107	2.9	117	61	US-08-292-Sequence 24, Applicati	5.23e+00
18	105	2.8	15	34	US-08-185-Sequence 19, Applicati	7.38e+00
19	104	2.8	15	34	US-08-185-Sequence 49, Applicati	8.76e+00
20	104	2.8	117	45	US-08-292-Sequence 18, Applicati	8.76e+00
21	104	2.8	117	61	US-08-456-Sequence 16, Applicati	8.76e+00
22	105	2.8	119	65	US-08-497-Sequence 20, Applicati	7.38e+00
23	104	2.8	119	65	US-08-497-Sequence 22, Applicati	8.76e+00
24	101	2.7	15	34	US-08-185-Sequence 29, Applicati	1.46e+01
25	101	2.7	15	34	US-08-185-Sequence 41, Applicati	1.46e+01
26	101	2.7	15	34	US-08-185-Sequence 35, Applicati	1.46e+01
27	101	2.7	15	34	US-08-185-Sequence 7, Applicati	1.46e+01
28	99	2.7	15	34	US-08-185-Sequence 42, Applicati	2.04e+01
29	99	2.7	15	34	US-08-185-Sequence 36, Applicati	2.04e+01
30	102	2.7	118	48	US-08-326-Sequence 2, Applicatio	1.23e+01
31	101	2.7	118	45	US-08-292-Sequence 17, Applicati	1.46e+01
32	101	2.7	118	61	US-08-456-Sequence 15, Applicati	1.46e+01
33	101	2.7	119	13	US-07-895-Sequence 11, Applicati	1.46e+01
34	101	2.7	119	14	US-07-944-Sequence 11, Applicati	1.46e+01
35	101	2.7	119	12	US-07-812-Sequence 11, Applicati	1.46e+01
36	101	2.7	119	61	US-08-458-Sequence 11, Applicati	1.46e+01
37	101	2.7	138	13	US-07-895-Sequence 7, Applicatio	1.46e+01
38	101	2.7	138	61	US-08-458-Sequence 7, Applicatio	1.46e+01
39	101	2.7	138	12	US-07-812-Sequence 7, Applicatio	1.46e+01
40	101	2.7	138	14	US-07-944-Sequence 7, Applicatio	2.04e+01
41	99	2.7	966	66	US-08-571-Sequence 2, Applicatio	2.04e+01
42	98	2.6	15	34	US-08-185-Sequence 14, Applicati	2.41e+01
43	98	2.6	118	61	US-08-456-Sequence 19, Applicati	2.41e+01
44	98	2.6	118	45	US-08-292-Sequence 22, Applicati	2.41e+01
45	97	2.6	141	64	US-08-483-Sequence 12, Applicati	2.85e+01

CC ATTORNEY/AGENT INFORMATION:
CC NAME: CARTY, CHRISTINE E
CC REGISTRATION NUMBER: 36,099
CC REFERENCE/DOCKET NUMBER: 19445
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 908-594-6734
CC TELEFAX: 908-594-4720
CC
CC
CC
CC INFORMATION FOR SEQ ID NO: 2:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 507 amino acids
CC TYPE: amino acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: protein
CC HYPOTHETICAL: NO
CC
CC ANTI-SENSE: NO
CC
CC FRAGMENT TYPE: N-terminal
CC
CC ORIGINAL SOURCE:
CC SEQUENCE 507 AA; 56534 MW; 1382060 CN;

Query Match	100.0%;	Score 3721;	DB 56;	Length 507;
Best Local Similarity	100.0%;	Pred. No. 0.00e+00;		
Matches	507;	Conservative	0;	Mismatches 0;
			Indels	Gaps 0;

Db	1	MAHPSRNTYLPPEPSVAVVTDVDTYRISITFHAGSSRLTYGNTPEYPAAGGNG	60
Oy	1	MLMHRSDNTYLPPEPSVAVVTDVDTYRISITFHAGSSRLTYGNTPEYPAAGGNG	60
Db	61	DIKXSAVOYRVEFVQLPDPNKGGLPDNSITYNPEOTSLYMACAGYEIRGQPLGVLGSH	120
Oy	61	DIKXSAVOYRVEFVQLPDPNKGGLPDNSITYNPEOTSLYMACAGYEIRGQPLGVLGSH	120
Db	121	PFYNNKLDIPESSHAATSNVSEEDVRDVSVDYKOTQCLTGCAPALGEHMAKTRACKSRPL	180
Oy	121	PFYNNKLDIPESSHAATSNVSEEDVRDVSVDYKOTQCLTGCAPALGEHMAKTRACKSRPL	180
Db	181	SGQDCPPELKNYTLVEGDWDVGYGANDFSTLDDTKCEVPLDIOCSICXYPYLOMSAD	240
Oy	181	SGQDCPPELKNYTLVEGDWDVGYGANDFSTLDDTKCEVPLDIOCSICXYPYLOMSAD	240
Db	241	PYDSMSFELRLREQLPFARHFMNAGMGQTPQSLYTKGTGMASPGSCVSPSPSGSIV	300
Oy	241	PYDSMSFELRLREQLPFARHFMNAGMGQTPQSLYTKGTGMASPGSCVSPSPSGSIV	300
Db	301	TSSQQLFENPYLHQAQHNNGICMNOLEFVYVDTNRSTNLITCASQSPVQOQDARK	360
Oy	301	TSSQQLFENPYLHQAQHNNGICMNOLEFVYVDTNRSTNLITCASQSPVQOQDARK	360
Db	361	EKQYSHHVEEYDLOFIFQCLITLTLADVSYTHSNSSITLEDNFGVPPPTSLVDYR	420
Oy	361	EKQYSHHVEEYDLOFIFQCLITLTLADVSYTHSNSSITLEDNFGVPPPTSLVDYR	420
Db	421	FVQSVAITCQCAAPAEKRPYKLFWMVDLKEFSLDDQYPLGRKFLVOALRRKPT	480
Oy	421	FVQSVAITCQCAAPAEKRPYKLFWMVDLKEFSLDDQYPLGRKFLVOALRRKPT	480
Db	481	IGPKRRSAPSATSSKPAKRRVRAK	507
Oy	481	IGPKRRSAPSATSSKPAKRRVRAK	507
RESULT	2		
ID	US-08-408-669-2	STANDARD:	PRT: 507 AA.
XX	xxxxxx		
AC	01-JAN-1900		
DT			
XX	Sequence 2, Application US/08408669.		
DE			
XX			
CC	Sequence 2, Application US/08408669		
	GENERAL INFORMATION:		

CC APPLICANT: HOFMANN, KATHRYN J.
 CC APPLICANT: JANSSEN, KATHRIN U.
 CC APPLICANT: NEPPER, MICHAEL P.
 CC TITLE OF INVENTION: DNA ENCODING HUMAN PAPILLOMAVIRUS TYPE 18
 CC NUMBER OF SEQUENCES: 16
 CC CORRESPONDENCE ADDRESS:
 CC ADDRESSEE: CHRISTINE E. CARRY - MERCK & CO., INC.
 CC STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000
 CC CITY: RAHWAY
 CC STATE: NJ
 CC COUNTRY: US
 CC ZIP: 07065-0907
 CC COMPUTER READABLE FORM:
 CC MEDIUM TYPE: Diskette
 CC COMPUTER: IBM Compatible
 CC OPERATING SYSTEM: DOS
 CC SOFTWARE: FASTSD Version 1.5
 CC CURRENT APPLICATION DATA:
 CC APPLICATION NUMBER: US/08/408,669
 CC FILING DATE: 22-MAR-1995
 CC CLASSIFICATION: 435
 CC PRIOR APPLICATION DATA:
 CC APPLICATION NUMBER:
 CC FILING DATE:
 CC ATTORNEY/AGENT INFORMATION:
 CC NAME: CARRY, CHRISTINE E
 CC REGISTRATION NUMBER: 36/099
 CC REFERENCE/DOCKET NUMBER: 19424
 CC TELECOMMUNICATION INFORMATION:
 CC TELEPHONE: 908-594-6734
 CC TELEFAX: 908-594-4720
 CC TELEX:
 CC INFORMATION FOR SEQ ID NO: 2:
 CC SEQUENCE CHARACTERISTICS:
 CC LENGTH: 507 amino acids
 CC TYPE: amino acid
 CC STRANDEDNESS: single
 CC TOPOLOGY: linear
 CC MOLECULE TYPE: protein
 CC HYPOTHEICAL: NO
 CC ANTI-SENSE: NO
 CC FRAGMENT TYPE: N-terminal
 CC ORIGINAL SOURCE:
 CC SEQUENCE 507 AA; 56534 MW; 1382060 CN;

Query Match	100.0%;	Score 3721;	DB 56;	Length 507;
Best Local Similarity	100.0%;	Pred. No. 0.00e+00;		
Matches 507;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

D	b	1	M	P	S	S	O	N	T	Y	L	P	P	S	V	A	R	V	N	D	D	V	T	T	S	I	F	H	A	S	S	R	L	T	V	G	P	R	V	P	A	G	S	K	O	60								
O	y	1	M	A	L	M	R	S	D	N	T	Y	L	P	P	S	V	A	R	V	N	D	D	V	T	T	S	I	F	H	A	S	S	R	L	T	V	G	P	R	V	P	A	G	S	K	O	60						
D	b	61	D	I	K	S	A	Q	V	E	N	O	L	P	D	N	E	G	P	N	S	I	N	E	R	O	L	M	A	C	A	V	E	L	G	R	O	P	A	G	S	I	G	H	120									
O	y	61	D	I	K	S	A	Q	V	E	N	O	L	P	D	N	E	G	P	N	S	I	N	E	R	O	L	M	A	C	A	V	E	L	G	R	O	P	A	G	S	I	G	H	120									
D	b	121	P	E	N	K	I	D	T	E	S	S	H	A	N	S	S	E	D	V	R	O	N	S	V	D	K	O	T	O	L	I	G	C	A	P	A	I	G	H	A	K	G	I	A	C	S	R	L	180				
O	y	121	P	E	N	K	I	D	T	E	S	S	H	A	N	S	S	E	D	V	R	O	N	S	V	D	K	O	T	O	L	I	G	C	A	P	A	I	G	H	A	K	G	I	A	C	S	R	L	180				
D	b	181	S	O	G	D	C	P	E	L	K	N	V	L	E	D	G	M	D	V	T	G	A	M	D	S	T	I	O	D	T	K	C	E	V	P	L	D	I	O	S	I	C	R	P	T	O	M	S	A	D	240		
O	y	181	S	O	G	D	C	P	E	L	K	N	V	L	E	D	G	M	D	V	T	G	A	M	D	S	T	I	O	D	T	K	C	E	V	P	L	D	I	O	S	I	C	R	P	T	O	M	S	A	D	240		
D	b	241	P	Y	D	S	M	F	O	L	R	E	D	L	E	A	R	H	E	M	R	A	G	T	M	D	I	V	P	O	S	I	I	K	T	G	R	A	S	P	E	S	G	S	I	V	300							
O	y	241	P	Y	D	S	M	F	O	L	R	E	D	L	E	A	R	H	E	M	R	A	G	T	M	D	I	V	P	O	S	I	I	K	T	G	R	A	S	P	E	S	G	S	I	V	300							
D	b	301	T	S	D	S	O	L	E	N	K	P	M	L	K	A	G	H	N	S	I	C	H	N	O	L	E	V	T	V	D	T	T	S	T	N	L	T	I	C	A	S	T	O	S	P	V	E	O	I	D	A	K	360
O	y	301	T	S	D	S	O	L	E	N	K	P	M	L	K	A	G	H	N	S	I	C	H	N	O	L	E	V	T	V	D	T	T	S	T	N	L	T	I	C	A	S	T	O	S	P	V	E	O	I	D	A	K	360

DB	361	EQYSHHEEYDLOQITFOLCTITTLADVMSYTHSNSSILEDWNFVGPPEPTTSLVDTYR	420
0Y	361	FKQYSHHEEYDLOQITFOLCTITTLADVMSYTHSNSSILEDWNFVGPPEPTTSLVDTYR	420
DB	421	FVQSAITTCORNAAEAKNDPKFKFNVDLKEKFSLDLOQYPLGRKFLVOAGLRKPT	480
0Y	421	FVQSAITTCORNAAEAKNDPKFKFNVDLKEKFSLDLOQYPLGRKFLVOAGLRKPT	480
DB	481	IGPRRSAPSATTSKPAKRVVRARK	507
0Y	481	IGPRRSAPSATTSKPAKRVVRARK	507
RESULT	3	STANDARD;	505 AA.
ID	US-08-641-570-4		
AC	xxxxxx		
XX	01-JAN-1900		
XX			
DE	Sequence 4, Application US/08641570.		
XX			
CC	Sequence 4, Application US/08641570		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Durst, Mathias		
CC	APPLICANT: Gissman, Lutz		
CC	TITLE OF INVENTION: A DNA SEQUENCE ENCODING A PAPILLOMAVIRUS		
CC	TITLE OF INVENTION: I1 PROTEIN CAPABLE OF EFFICIENTLY FORMING VIRUS-L		
IKE			
CC	TITLE OF INVENTION: PARTICLES		
CC	NUMBER OF SEQUENCES: 6		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP		
CC	STREET: P.O. Box 747		
CC	CITY: Falls Church		
CC	STATE: Virginia		
CC	COUNTRY: USA		
CC	ZIP: 22040-0747		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: PatentIn Release #1.0, Version #1.30		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/641,570		
CC	FILING DATE:		
CC	CLASSIFICATION: 435		
CC	PRIOR APPLICATION DATA:		
CC	APPLICATION NUMBER: US 08/092,528		
CC	FILING DATE: 16-JUL-1993		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Svensson, Leonard R.		
CC	REGISTRATION NUMBER: 30330		
CC	REFERENCE/DOCKET NUMBER: 147-133P		
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE: 703-205-8000		
CC	TELEFAX: 703-205-8050		
CC	INFORMATION FOR SEQ ID NO: 4:		
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH: 505 amino acids		
CC	TYPE: amino acid		
CC	TOPOLOGY: linear		
CC	MOLECULE TYPE: protein		
CC	SEQUENCE 505 AA: 56308 MM; 1375030 CN;		
DB	Query Match	70.3%; Score 2616; DB 67; Length 505;	
	Best Local Similarity	65.7%; Pred. No. 5,53e-248;	
0Y	Matches 329; Conservative	96; Mismatches 74; Indels 2; Gaps 2;	
	1 MSALPSEATYVLPVPVSKVSTDELYAKRTIYYHAGSRLANGHPYPIKFRNNKI	60	
	1 MALMPRSQNTYVLPVPVSKVSTDELYAKRTIYYHAGSRLANGHPYPIKFRNNKI	60	
	1 MALMPRSQNTYVLPVPVSKVSTDELYAKRTIYYHAGSRLANGHPYPIKFRNNKI	60	

[illegible]

CC REFERENCE/DOCKET NUMBER: 147-133P
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 703-205-8000
CC TELEFAX: 703-205-8050
CC INFORMATION FOR SEQ ID NO: 2:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 505 amino acids
CC TYPE: amino acid
CC TOPOLOGY: 1 linear
CC MOLECULE TYPE: Protein
SQ SEQUENCE 505 AA; 56292 MW; 1366834 CN;

Query Match 70.2%; Score 2611; DB 67; Length 505;
Best Local Similarity 65.3%; Pred. No. 1,786-247;
Matches 327; Conservative 90; Mismatches 74; Indels 2; Gaps 2;

Db 1 MSMLPSEATVYLPVPSKVSTDEYVARTNIVYHAGTSRLAVGHPFPKKNNNKI 60
QY 1 MALMRPSDNTVYLPSPSVARVNTDVTSTLFYHAGSSRLTVGNPFYFVPAAGGNQ 60
Db 61 LVPVSGLYRFRILHLPDNRKGFPTSFYNDPQRLVMACVGVGSGQPLGVGSGH 120
QY 61 DIPKVSAYQYRFRVQLPDPNKFGLPDNSIYNBETQRLVMACAGVEIGRQPLGVGSGH 120
Db 121 PLNKLDDTENASAYANAGVNDRECSMDYKQTOQLIGCKPPIGEHMGKSPCTNVAV 180
QY 121 PFYNNKDDTSSHAATSNVSEEDVNDNSVDYKQTOQLIGCAPAIGEHMAGTACKSRPL 180
Db 181 NPGDCPPELEINTIIOGDMDVDTGFAMDEFTTLQANKSEVPLDICTICKYPDYIKWSE 240
QY 181 SQGDCPPELEKNTVLEDGMDVDTGFAMDEFTTLQDKCEVPLDICTICKYPDYIKWSE 240
Db 241 PYGDSLPFYLRRQMFVRLHFRAGAVGVNPDYLTIKSGSTANLASSNFPPTSGSNV 300
QY 241 PYGDSMFECRLRQQLFARHFNRACTMGDTVPQSLYIKGTGRASPSCYSPSGSIV 300
Db 301 TSDAQFNKPYMLQRAOGNNIGCNOLEFVYVDTTRSTNNISLCAISSEET-KKNN 359
QY 301 TSDQLFNKPYYLHKQGNNGICHHNQLFVYVDTTRSTNTLICASQSPSGVQYDATK 360
Db 360 FKEXLRGEYDLOTFOLCKTLTADVMTYISNMTLLEPMNGLOPPGGLDITYR 419
QY 361 FKQYSRHVEYDLOTFOLCTTLTADVMSYHNSMSLLEDMNFGVPPPTSLVDYTR 420
Db 420 FVTSQATLQCKHTPPAKKEDPLKTYTREVYNLEKESADLDQPLGKRTLLQAGLAKPK 479
QY 421 FVQSVALTQCKDAPEKNDPDKLKEFMVNDLEKESLDDQYPLGRFLVQAGLRKPT 480
Db 480 FTLGKRAATPTTSSTIAKR 500
QY 481 IG-PKRSAPSATTSKPAKR 500

RESULT 5
ID US-08-737-336-6 STANDARD; PRI: 532 AA.
AC xxxxxx
XX 01-JAN-1900
XX
XX Sequence 6, Application US/08737336.
CC Sequence 6, Application US/08737336
CC GENERAL INFORMATION:
CC APPLICANT: FRAZER, Ian
CC APPLICANT: ZHOU, Jian
CC TITLE OF INVENTION: RECOMBINANT PAPILLOMA VIRUS L1
CC NUMBER OF SEQUENCES: 6
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Foley & Lardner
CC STREET: 3000 K Street, N.W., Suite 500
CC CITY: Washington
CC STATE: D.C.

CC COUNTRY: USA
CC ZIP: 20007-5109
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC SOFTWARE: Patent Release #1.0, Version #1.30
CC CURRENT APPLICATION DATA:
CC FILING DATE: 16-JAN-1997
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: WO PCT/AU95/00292
CC FILING DATE: 17-MAY-1995
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: AU PM 5667
CC FILING DATE: 17-MAY-1994
CC ATTORNEY/AGENT INFORMATION:
CC NAME: SAXE, Bernhard D.
CC REGISTRATION NUMBER: 28,665
CC REFERENCE/DOCKET NUMBER: 65064/118
CC TELEPHONE: (202)672-5300
CC TELEFAX: (202)672-5399
CC TELEX: 904136
CC INFORMATION FOR SEQ ID NO: 6:
CC LENGTH: 532 amino acids
CC TYPE: amino acid
CC TOPOLOGY: 1 linear
CC MOLECULE TYPE: Protein
SQ SEQUENCE 532 AA; 59240 MW; 1539375 CN;

Query Match 68.4%; Score 2547; DB 73; Length 532;
Best Local Similarity 63.2%; Pred. No. 5,636-241;
Matches 321; Conservative 107; Mismatches 73; Indels 7; Gaps 6;

Db 31 KDMRPSDSTVYVPPNPVSKYVATDAVYRTNIFYHAGSSRLAVGHPYSIKRA--NK 88
QY 1 MALMRPSDNTVYLPSPSVARVNTDVTSTLFYHAGSSRLTVGNPFYFVPAAGGNQ 59
Db 89 TVVPVSGYQYRFRVQLPDPNKFGLPDNSIYNBETQRLVMACAGVEIGRQPLGVGSGH 148
QY 60 DIPKVSAYQYRFRVQLPDPNKFGLPDNSIYNBETQRLVMACAGVEIGRQPLGVGSGH 119
Db 149 HPELNKYDNDVNS-GSGNPGQDNRVNMGMDYKQTOQLIGCAPAIGEHMAGTACKSRP 179
QY 120 HPEYKRLDDTSSHAATSNVSEEDVNDNSVDYKQTOQLIGCAPAIGEHMAGTACKSRP 179
Db 208 VOAGCPPELEINTIIOGDMDVDTGFAMDEFTTLQANKSEVPLDICTICKYPDYIKWSE 267
QY 180 LSQDCPPELEKNTVLEDGMDVDTGFAMDEFTTLQDKCEVPLDICTICKYPDYIKWSE 239
Db 268 DRYGRLFFELRRQMFVRLHFRAGAVGVNPDYLTIKSGSTANLASSNFPPTSGSNV 327
QY 240 DRYGDSMFECRLRQQLFARHFNRACTMGDTVPQSLYIKGTGRASPSCYSPSGSIV 299
Db 328 VSEAOLEFNKPYMLQRAOGNNIGCNOLEFVYVDTTRSTNNISLCAISSEET-KKNN 385
QY 300 VTSQDLFNKPYMLHKQGNNGICHHNQLFVYVDTTRSTNTLICASQSPSGVQYDATK 359
Db 386 DYKEXMRHVEYDLOTFOLCKTLTADVMTYISNMTLLEPMNGLOPPGGLDITYR 445
QY 360 KFKQYSRHVEYDLOTFOLCTTLTADVMSYHNSMSLLEDMNFGVPPPTSLVDYTR 419
Db 446 RIVQSVALTQCKHTPPAKKEDPLKTYTREVYNLEKESADLDQPLGKRTLLQAGLAKPK 505
QY 420 FVQSVALTQCKDAPEKNDPDKLKEFMVNDLEKESLDDQYPLGRFLVQAGLRKPT 479
Db 506 STIRGVKR-PAVSKASAPKRAKTR 532
QY 480 TIGPKRSAPSATTSKPAKR 507

SO	SEQUENCE	21 AA; 2264 MW; 1895 CN;
	Query Match	3.7%; Score 137; DB 14; Length 21;
	Best Local Similarity 100.0%;	Pred. No. 2.38e-02;
	Matches 21; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
Dd	1 QSVAITCCKDAAPAKNDPYD 21 	
Oy	423 QSVAITCCKDAAPAKNDPYD 443	
RESULT 11	ID US-07-949-836C-67	STANDARD; PRT: 21 AA.
XX AC xxxxxx		
XX DT 01-JAN-1900		
DE	Sequence 67, Application US/07949836C.	
XX	Sequence 67, Application US/07949836C.	
CC CC	GENERAL INFORMATION:	
CC CC	APPLICANT: DILLNER, JOAKIM	
CC CC	APPLICANT: DILLNER, LENA	
CC CC	TITLE OF INVENTION: CHEUNG, HWEI-MING	
CC CC	TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN	
CC CC	TITLE OF INVENTION: PAPILLOWAVIRUS 1, 5, 6, 8,	
CC CC	TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,	
CC CC	TITLE OF INVENTION: USEFUL IN IMMUNOSSAYS FOR	
CC CC	TITLE OF INVENTION: DIAGNOSTIC PURPOSES	
CC CC	NUMBER OF SEQUENCES: 193	
CC CC	CORRESPONDENCE ADDRESS:	
CC CC	ADDRESSEE: MASON & ASSOCIATES, P.A.	
CC CC	STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500	
CC CC	CITY: CLEARWATER	
CC CC	STATE: FLORIDA	
CC CC	COUNTRY: U.S.A.	
CC CC	COMPUTER READABLE FORM:	
CC CC	MEDIUM TYPE: Floppy disk	
CC CC	COMPUTER: IBM PC compatible	
CC CC	OPERATING SYSTEM: Windows 3.0	
CC CC	SOFTWARE: Microsoft Word 6.0	
CC CC	CURRENT APPLICATION DATA:	
CC CC	APPLICATION NUMBER: US/07/949,836C	
CC CC	FILING DATE:	
CC CC	ATTORNEY/AGENT INFORMATION:	
CC CC	NAME: LOUISE A. FOUTCH	
CC CC	REGISTRATION NUMBER: 37,133	
CC CC	REFERENCE/DOCKET NUMBER: 1946.6	
CC CC	TELECOMMUNICATION INFORMATION:	
CC CC	TELEPHONE: 813-538-3800	
CC CC	TELEFAX: 813-538-3820	
CC CC	TELEX:	
CC CC	INFORMATION FOR SEQ ID NO: 67:	
CC CC	SEQUENCE CHARACTERISTICS:	
CC CC	LENGTH: 21 amino acids	
CC CC	Type: amino acid	
CC CC	TOPOLOGY: linear	
CC CC	MOLECULE TYPE: peptide	
CC CC	SEQUENCE 21 AA; 2264 MW; 1895 CN;	
	Query Match	3.7%; Score 137; DB 14; Length 21;
	Best Local Similarity 100.0%;	Pred. No. 2.38e-02;
	Matches 21; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
Dd	1 QSVAITCCKDAAPAKNDPYD 21 	
Oy	423 QSVAITCCKDAAPAKNDPYD 443	
RESULT 12	ID US-08-247-485-15	STANDARD; PRT: 22 AA.
XX		

AC xxxxxx
XX 01-JAN-1900
DT
XX
DE Sequence 15, Application US/08247485.
XX
CC Sequence 15, Application US/08247485
CC GENERAL INFORMATION:
CC APPLICANT: Muller, Martin
CC APPLICANT: Chasmod, Fritz
CC TITLE OF INVENTION: SPOROECTIVE EPINOSES OF HUMAN
CC TITLE OF INVENTION: PAPILLOMAVIRUS (HPV) 16 PROTEINS
CC NUMBER OF SEQUENCES: 21
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
CC STREET: 1300 I Street, N.W. Suite 700
CC CITY: Washington
CC STATE: D.C.
CC COUNTRY: USA
CC ZIP: 20005-3315
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/247,485
CC FILING DATE:
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US 07/671,205
CC FILING DATE: 18-MAR-1991
CC APPLICATION NUMBER: EP 90105222.5
CC FILING DATE: 20-MAR-1990
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Lavin Jr., Lawrence M.
CC REGISTRATION NUMBER: 30,768
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (202) 408-4000
CC TELEFAX: (202) 408-4400
CC INFORMATION FOR SEQ ID NO: 15:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 22 amino acids
CC TYPE: amino acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC SEQUENCE 22 AA; 2750 MW; 2510 CN;
SQ
Query Match 3.2%; Score 118; DB 40; Length 22;
Best Local Similarity 70.0%; Pred. No. 7.60e-01;
Matches 14; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

CC TITLE OF INVENTION: Papilloma Virus Vaccine
CC NUMBER OF SEQUENCES: 66
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Merchant & Gould
CC STREET: 3100 Northwest Center
CC CITY: Minneapolis
CC STATE: MN
CC COUNTRY: USA
CC ZIP: 55402
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/185,928
CC FILING DATE: 19-JAN-1994
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: WO PCT/AU93/02184
CC FILING DATE: 20-JUL-1992
CC APPLICATION NUMBER: AU PR7322
CC FILING DATE: 19-JUL-1991
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kowalchuk, Katherine M.
CC REGISTRATION NUMBER: 36,848
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 612-332-5300
CC TELEFAX: 612-332-9081
CC INFORMATION FOR SEQ ID NO: 40:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 15 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC SEQUENCE 15 AA; 1898 MW; 1116 CN;
SQ
Query Match 3.1%; Score 117; DB 34; Length 15;
Best Local Similarity 93.3%; Pred. No. 9.08e-01;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 RHGEYDLPFQLC 15
QY 366 RHVEYDLPFQLC 380

RESULT 14
ID US-08-185-928-34 STANDARD: PRT: 15 AA.
XX
XX xxxxxx
DT 01-JAN-1900
XX
DE Sequence 34, Application US/08185928.
XX
CC Sequence 34, Application US/08185928
CC GENERAL INFORMATION:
CC APPLICANT: Zhou, Jian
CC APPLICANT: Frazer, Ian
CC TITLE OF INVENTION: Papilloma Virus Vaccine
CC NUMBER OF SEQUENCES: 66
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Merchant & Gould
CC STREET: 3100 Northwest Center
CC CITY: Minneapolis
CC STATE: MN
CC COUNTRY: USA
CC ZIP: 55402
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible

CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/185,928
CC FILING DATE: 19-JAN-1994
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: WO PCT/AU93/02184
CC FILING DATE: 20-JUL-1992
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: AU PK7322
CC FILING DATE: 19-JUL-1991
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kowalchuk, Katherine M.
CC REGISTRATION NUMBER: 36,848
CC REFERENCE/DOCKET NUMBER: 10174,5USWO
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 612-332-5300
CC TELEFAX: 612-332-9081
CC INFORMATION FOR SEQ ID NO: 34:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 15 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC SEQUENCE 15 AA: 1886 MW; 1025 CN;
SO

Query Match 3.0%; Score 113; DB 34; Length 15;
Best Local Similarity 80.0%; Pred. No. 1.84e+00;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Db 1 QLFNRPYLQRAQGH 15
QY 305 QLFNRPYLHKAQGH 319

RESULT 15
ID US-08-185-928-13 STANDARD; PRT; 15 AA.
XX xxxxxx
DT 01-JAN-1990
DE Sequence 13, Application US/08185928.
XX
CC Sequence 13, Application US/08185928
CC GENERAL INFORMATION:
CC APPLICANT: Frazer, Ian
CC TITLE OF INVENTION: Papilloma Virus Vaccine
CC NUMBER OF SEQUENCES: 66
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Merchant & Gould
CC STREET: 3100 Norwest Center
CC CITY: Minneapolis
CC STATE: MN
CC COUNTRY: USA
CC ZIP: 55402
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
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CC REFERENCE/DOCKET NUMBER: 10174,5USWO
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 612-332-5300
CC TELEFAX: 612-332-9081
CC INFORMATION FOR SEQ ID NO: 13:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 15 amino acids
CC TYPE: amino acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC SEQUENCE 15 AA: 1673 MW; 1300 CN;
SO

Query Match 3.0%; Score 112; DB 34; Length 15;
Best Local Similarity 86.7%; Pred. No. 2.19e+00;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 1 TORLYMACGYEVGR 15
QY 95 TORLYMACAGYEIGR 109

Search completed: Tue Sep 23 15:23:36 1997
Job time : 145 secs.

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